

**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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#### **District: Aizawl**

Period: 11 April – 15 April, 2018

| Bulletin No: - 783/2                       | 018/ Bullet                           | in/English   | Date of is          | sue: 10 <sup>th</sup> April           | , 2018           |  |
|--|---------------------------------------|--|---------------------|---------------------------------------|------------------|--|
| Parameters                                 | 11.04.2018                            | 3 12.04.2018   | 13.04.2018          | 14.04.2018                            | 15.04.2018       |  |
| Rainfall (mm)                              | 15                                    | 22   | 16                  | 14                                    | 25               |  |
| Max Temp (°C)                              | 30                                    | 30   | 30                  | 30                                    | 30               |  |
| Min Temp (°C)                              | 14                                    | 14   | 14                  | 14                                    | 14               |  |
| Cloud Coverage                             | Partially clea:                       | r Partially clear  | Partially clear     | Partially clear                       | Partially clear  |  |
| Max RH (%)                                 | 96                                    | 96   | 92                  | 96                                    | 97               |  |
| Min RH (%)                                 | 50                                    | 59   | 37                  | 36                                    | 34               |  |
| Wind Speed (KmpH)                          | 3                                     | 3  | 5                   | 3                                     | 4                |  |
| *Wind Direction                            | S-E                                   | S-E  | S-E                 | S-E                                   | S-E              |  |
|  |                                       | -Easterly- <mark>N-E</mark> , Eas<br>Westerly- <mark>S-W</mark> , We                                       |                     |                                       |                  |  |
|  |                                       | 1-31, 2018 (Percent  |                     |                                       | enthesis)        |  |
| Aizawl- 8.42 mm                            | Champha                               | i- 9.28 mm S   | aiha- 11.37 mn      | n Kolasib-                            | 10.51 mm         |  |
| (4.20mm)                                   |                                       | (5.10mm)   | (3.60mn             |                                       | (10.80mm)        |  |
| Lawngtlai-7.84mm                           | Lunglei                               |  | 6.35mm Mamit-8.21mm |                                       | <b>ip-6.37mm</b> |  |
| (3.40mm)                                   |                                       | (4.10mm)   | (8.30mm             | · · · · · · · · · · · · · · · · · · · | (5.20mm)         |  |
| Weather summary                            | · · · · · · · · · · · · · · · · · · · | Weather forecast valid from 11 <sup>th</sup> April, 2018 To<br>15 <sup>th</sup> April, 2018.               |                     |                                       |                  |  |
| three day                                  |                                       |  |                     |                                       |                  |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1 |                                       | There are chances of moderate to heavy rainfall during the   |                     |                                       |                  |  |
| Maximum RH (%):88-                         |                                       | next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30°C and 14°C. Maximum |                     |                                       |                  |  |
| Minimum RH (%):48-                         |                                       | U  | <i>v v</i>          |                                       |                  |  |
| Wind Direction: Sout                       |                                       | relative humidity is expected in the range of 92-97% and   |                     |                                       |                  |  |
| Cloud cover: Mainly                        | · · · · · · · · · · · · · · · · · · · | minimum may from 34-59%. Wind direction would be   |                     |                                       |                  |  |
| Wind speed: 1-2 km/                        |                                       | southeasterly with the wind speed of 3-5 km per hour.  |                     |                                       |                  |  |
| wind speed. I 2 milly                      |                                       | Partially clear sk   | y will prevail d    | uring the next f                      | five days.       |  |
| Rainfall: 34.1 mm                          |                                       |  |                     |                                       |                  |  |
|  |                                       | Weekl  | y cumulative i      | rainfall: 92.0 1                      | nm               |  |
| NDVI for Mizoram                           |                                       | North East Region 24 fam   | Mildly dry          | condition oc                          | curs in all      |  |
|  |                                       |  | districts of        |                                       |                  |  |
|  |                                       |  |                     |                                       |                  |  |

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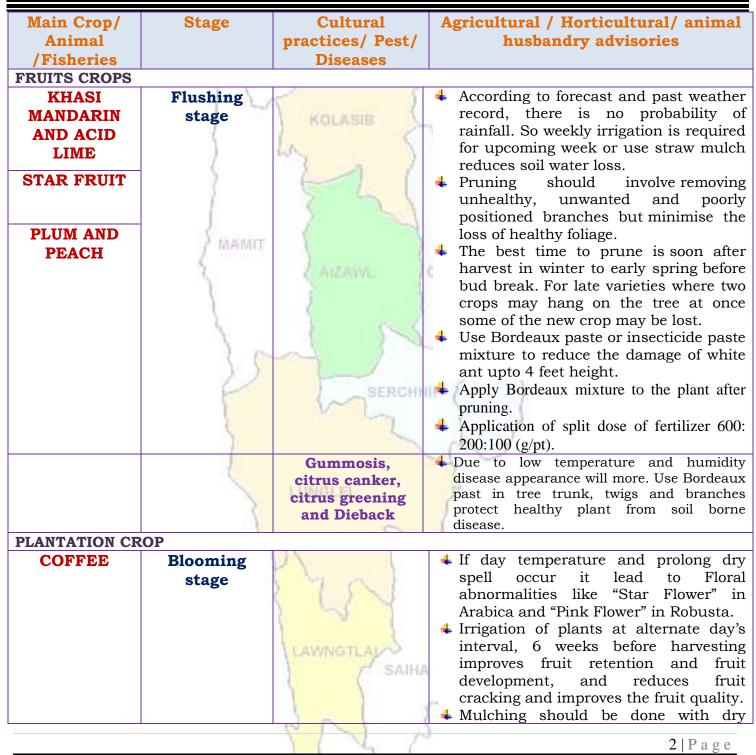
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Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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|                 | 7                                  | KOLASIB         | <ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride<br/>(a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>   |
|-----------------|------------------------------------|-----------------|--|
| Rubber          | Vegetative<br>stage                | AIZAWL          | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>  |
| Oil plam        | Vegetative/<br>Harvesting<br>stage |                 | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| CEREALS AND H   |                                    | TLANING IL NO Y |  |
| Maize<br>(Jhum) | Sowing stage                       | SAIHA           | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> </ul>   |
|                 |                                    | 6 N 3           |  |
|                 |                                    | I L L           | <b>3</b>   P a g e   |



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|                                 | $\sum_{i=1}^{n}$           | KOLASIB                          | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---------------------------------|----------------------------|----------------------------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CRO | Sowing stage               | AIZAWL                           | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| Ginger and<br>turmeric          | Sowing stage               |                                  | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul>  |
| Onion                           | Bulb<br>formation<br>stage | Poly house<br>LAWNGTLAL<br>SAIHA | <ul> <li>Provide irrigation every alternate day<br/>due to non availability of rain.</li> <li>Intercultural operations should be</li> </ul>   |
|                                 |                            | 1121                             | 4   P a g e   |



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|          |                                     | A          | applied 30-40 days after transplanting<br>Provide irrigation if water is require.<br>Low temperature and high humidit   |
|----------|-------------------------------------|------------|---|
|          | 5                                   | 23         | <ul> <li>Low temperature and high human<br/>influence the population of onion trips</li> <li>Apply any systemic insecticide 1.<br/>m1/lt of water.</li> </ul>   |
| Capsicum | Flowering to fruiting stage         | Poly house | Intercultural operations should be dor<br>regularly to keep the crop free from<br>weeds and aeration of the root system.  |
|          | 1                                   | 54         | <ul> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide reduce damage of chilli thrips.</li> </ul>   |
| Brinjal  | Fruiting to<br>flowering<br>stage   | AIZAWL     | According to forecast and past weath<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.                         |
|          | 25                                  | SERCHH     | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Fruit and shoot borer attack will ma<br/>in dry weather. Apply any systemat</li> </ul>            |
|          | }                                   | 1          | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>  |
| Chilli   | Vegetative to<br>flowering<br>stage |            | <ul> <li>According to forecast and past weath<br/>record, there is no probability<br/>rainfall. So weekly twice irrigation<br/>required for upcoming week or up<br/>straw mulch reduces soil water loss.</li> </ul> |
|          |                                     | Y27        | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|          |                                     | SAIHA      | In large gardens apply carbaryl 0.2 per ce<br>or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/1<br>fortnightly intervals at flowering and fru-<br>initiation.                          |
|          |                                     | PN 2       | 5   P a g e   |



ICAR RESEARCH COMPLEX FOR NEH REGION



| Potato       | Harvesting   |                  | 4 If the leaves and plant became dry it                      |
|--------------|--------------|------------------|--|
|              | stage        |                  | means plant ready for harvesting.                            |
|              | Stuge        |                  | 4 Open the furrow with the help of                           |
|              |              |                  | spade, harvest all mature tubers.                            |
|              | 2.1          | 1                | 4 Discard all mother tubers from                             |
|              |              | 5                | harvested potato tubers.                                     |
|              |              | KOLASIB          | Keep 7 -10 days for drying or reduce                         |
|              | 6            | (                | the moisture level in shed dry.                              |
|              | )            | 60 J             | <ul> <li>Keep 25% seed for next season sowing.</li> </ul>    |
| Cowpea       | Sowing stage | 1 1              | <ul> <li>Plough the field properly, at least 2-3</li> </ul>  |
| compea       | Sowing Stage |                  | times.   |
|              | 1            |                  | Mix fertilizer with FYM 50:60:60Kg                           |
|              |              |                  | /ha.   |
|              | MAMIT        | 1                | Sow 2-3 seed per whole.                                      |
|              | 2 marshi 2   |                  | Spacing should be 30 X 20 cm.                                |
| Okra         | Sowing stage | C AIZAWAL        | <ul> <li>Plough the field with the help of spade.</li> </ul> |
| Omu          | Sowing Stuge |                  | Sow 2 seed 45 X 45 cm spacing.                               |
|              |              | 6                | <ul> <li>Before sowing seed provide one or two</li> </ul>    |
|              | S            | 1 66             | irrigation.  |
|              |              | V S N            | Frovide fertilizer @ 120: 60: 60 Kg/ha                       |
| ANIMAL HUSBI | ENDARY       |                  |  |
| Pig          | All stages   | SERCHN           | 4 Animals must keep in dry place or                          |
| <b>8</b>     |              | SERCHA           | kept in alleviated area and dry bedding                      |
|              |              | Mr. Long         | (straw) to be provided to young                              |
|              | 50           |                  | animals.   |
|              | 1            |                  | 4 1 <sup>st</sup> injection at 6 months of age and           |
|              | 1            |                  | 2nd injection at 12 months of age                            |
|              |              | LUNGLEI          | followed by annual vaccination under                         |
|              | 3            | and the second   | vet supervision against FMD.                                 |
|              |              | 100.000          | <b>4</b> Reduce concentrate diet up to 5%.                   |
|              | 5            | n 75             | Provide adequate potable water.                              |
|              |              | 1                | <b>4</b> In present weather conditions                       |
|              |              | The set V        | vaccinate against swine fever (Vaccines                      |
|              |              | 2 1 5 5 5        | available in State Veterinary Departs)                       |
|              |              | Porcine          | 1. Culling of positive pigs or piglets.                      |
|              |              | Reproductive     |  |
|              |              | Respiratory      |  |
|              |              | Syndrome (PRRS). |  |
|              |              | ( ( Shink        |  |
|              |              |                  | 7.00   |
|              |              | A R I            |  |
|              |              | 81 N             |  |
|              |              |                  | 6   P a g e  |



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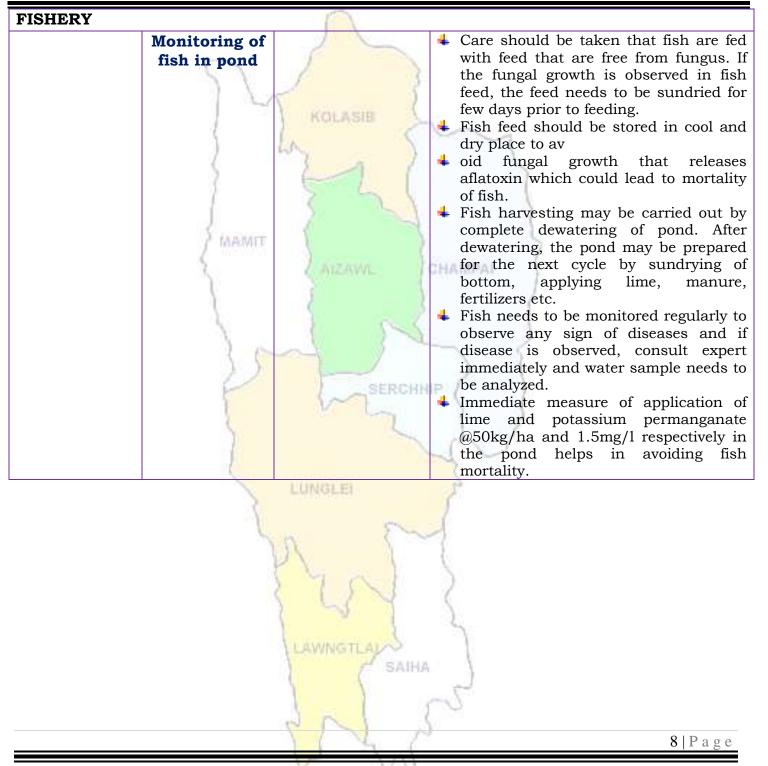


| Cattle  | All age group                           |   | 4 In present weather conditions, special                       |
|---------|---|---|--|
|         |   |   | care should be taken against attack of                         |
|         |   |   | maggots in the wounds of animals.                              |
|         |   |   | Application of turpentine oil in the                           |
|         | 2.1                                     | 1 2                                     | wounds followed by application of                              |
|         |   | 5 2                                     | antibiotics for five days is advised.                          |
|         |   | KOLASIB                                 | <ul> <li>Provide UMB/Molases if possible in the</li> </ul>     |
|         | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |   | feed   |
|         | )                                       | 60 J                                    | Provide 10-30 ml of vitamin B-Complex                          |
|         | S                                       | 2 1                                     | in feed  |
|         | 3                                       |   | ↓ 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd           |
|         | 1                                       |   | injection after 6 months of 1 <sup>st</sup> injection          |
|         |   |   | followed by annual vaccination under                           |
|         | MAMIT                                   |   | vet supervision.   |
|         | 2 massions                              | 1                                       | Separate sick animals.   |
|         | 1                                       | ( AIZAWL                                | 4 The animal should be washed with                             |
|         |   | 6 N                                     | lukewarm water added with little                               |
|         | S                                       | 5.                                      | potash (KMnO4) or neem leaves.                                 |
|         | S                                       | 1 1                                     | 4 Long hair near the   |
|         | 0.0                                     | 1 1 ×                                   | udder/stomach/back legs should be                              |
|         | 100                                     |   | teamed short.  |
| Poultry | All age group                           | SERCHN                                  | Provide preventive dose of anti-coccidial                      |
|         |   | (~                                      | drugs to poultry.  |
|         | ¥                                       |   | Proper ventilation of shed.                                    |
|         | 3                                       |   | + Provide glucose/electral along with                          |
|         | 118                                     |   | vitamin supplements (@5- 6ml/100                               |
|         | 10                                      | 100000000000000000000000000000000000000 | birds) with adequate potable water                             |
|         |   | LUNGLEI                                 | 4 Avoid overcrowding.  |
|         | 3                                       |   | <ul> <li>Provide broad-spectrum antihelminthic</li> </ul>      |
|         |   | 550                                     | drugs under vet supervision and                                |
|         |   | M (122                                  | recommended doses.   |
|         |   | DV V                                    | + Vaccination as per the schedule with                         |
|         |   | 1 4 26-1                                | proper consultation with vet.                                  |
|         |   |   | > Day old chick: HVT Marek disease                             |
|         |   | 1 -2 1                                  | vaccine, 4-7 days:   |
|         |   |   | days: Intermediate plus/IBD                                    |
|         |   | LAWNGTLAL                               | vaccine, 35 days: F/Lasota, 6-7                                |
|         |   | / SAIHA                                 | weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: |
|         |   | 1 8                                     | RD R-2B strain.  |
|         |   |   | <ul> <li>4 Remove wet litter.</li> </ul>                       |
|         |   | 201                                     |  |
|         |   | VIL /                                   | 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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 1  | Meteorological Observer      | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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

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: Aizawl**

| Bulletin | <b>No:</b> - | 783/2 | 2018/ | Bulletin/ | Mizo |
|----------|--------------|-------|-------|-----------|------|
|          |              |       | 1     | 1         | 0    |

#### Period: 11 April – 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|  |   | $\sim R$                        | 4.  |   |  |  |
|--|---|---------------------------------|---|---|--|--|
| Parameters   | 11.04.2018                                  | 12.04.2018                      | 13.04.2018  | 14.04.2018  | 15.04.2018   |  |
| Rainfall (mm)  | 15  | 22                              | 16  | 14  | 25   |  |
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| Min Temp (°C)  | 14  | 14                              | 14  | 14  | 14   |  |
| Cloud Coverage   | Partially clear                             | Partially clear                 | Partially clear   | Partially clear   | Partially clear  |  |
| Max RH (%)   | 96  | 96                              | 92  | 96  | 97   |  |
| Min RH (%)   | 50  | 59                              | 37  | 36  | 34   |  |
| Wind Speed (KmpH)  | 3   | 3                               | 5   | 3   | 4  |  |
| *Wind Direction  | S-E   | S-E                             | S-E   | S-E   | S-E  |  |
| Northe   | rly- N, North-                              | Easterly- N-E, East             | 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 Pre Mor  | nsoon- March 1                              | -31, 2018 (Percent              | of deviation fro  | m normal in pare  | enthesis)  |  |
| Aizawl- 8.42 mm  | Champh                                      |                                 | Saiha- 11.37 m  | im Kolasib  | - 10.51 mm   |  |
| (4.20mm)   |   | (5.10mm)                        | (3.60m  |   | (10.80mm)  |  |
| Lawngtlai-7.84mm   | Lungle                                      | ei-6.35mm                       | Mamit-8.21m   | m Serchh  | <mark>ip-6.37mm</mark>   |  |
| (3.40mm)   |   | (4.10mm)                        | (8.30m  | · · · · · · · · · · · · · · · · · · ·   | (5.20mm)   |  |
| Weather summary of   | of the past                                 | 11 <sup>th</sup> April – 1      | .5 <sup>th</sup> April, 20  | 18 chhunga  | sik leh sa   |  |
| three day  | s   | dinhmun tur tlangpui            |   |   |  |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):88-<br>Minimum RH (%):48-<br>Wind Direction: Sout<br>Cloud cover: Mainly o<br>Wind speed: 1-2 km/1<br>Rainfall: 34.1 mm | 4-17°C<br>99%<br>65%<br>heasterly<br>cloudy |                                 | Khua a lum l<br>30°C ni tura b<br>iam lai berin 3<br>ah 3-5 km v<br>rin a ni. A tla<br>g tak hmuh bei | ai berin 14ºC a<br>beisei a ni. RH<br>34-59% ni tur a<br>vela chakin ch<br>ngpuiin tun ni | a ni ang a. A<br>san lai berin<br>rin niin. Thli<br>haklam awi<br>nga chhung |  |
| NDVI for Mizoram   |   | North East Region 21 fac        | Mildly dry<br>districts of  | <sup>,</sup> condition oc<br>Mizoram.   | curs in all  |  |
|  |   | 1 / N                           | 12  |   | 1   Page   |  |



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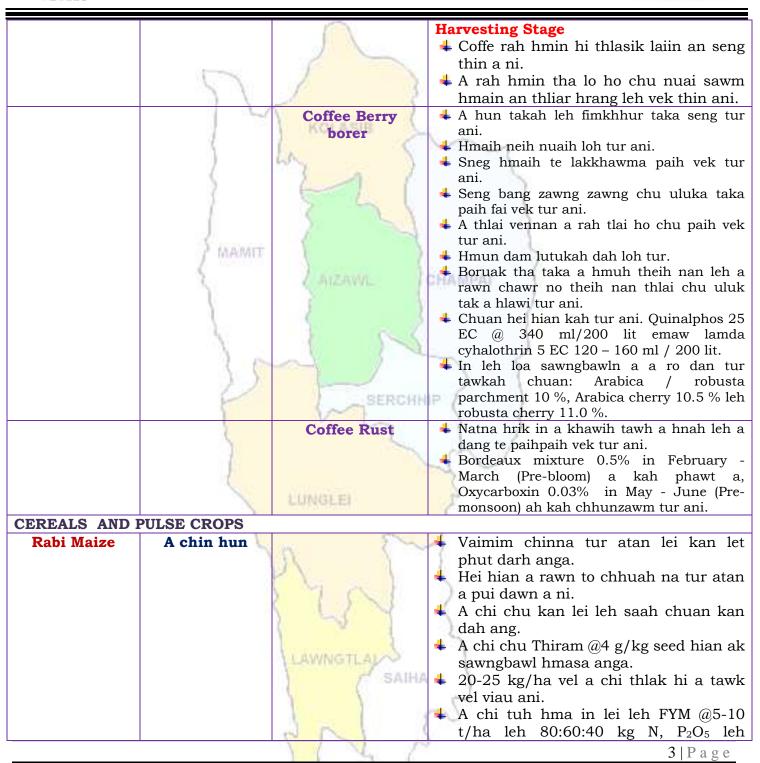


| Main Crop/     | Stage        | Cultural                       | Agricultural / Horticultural/ animal                     |
|----------------|--------------|--------------------------------|--|
| Animal         |              | practices/ Pest/               | husbandry advisories                                     |
| /Fisheries     |              | Diseases                       |  |
| FRUITS CROPS   |              |                                |  |
| KHASI          | A kui atanga | 8 8                            | 4 Thlasik laia thlai bul khoro lutuk tur                 |
| MANDARIN       | a seng hun   | KOLASIE                        | vennan chuan hnim hnah hring tlai bul                    |
| AND ACID       | 9            | 1 mountains 7                  | velah dahkhawm tur ani.                                  |
| LIME           | )            | LA.                            | <b>4</b> Thlai naupang deuah chuan chawlh                |
|                | (            | 1 1                            | kar tin a tui pek thin tur ani.                          |
| BANANA         | 1            |                                | 4 Leia tha mamawh tawk a hmuh                            |
|                | 1            | 2 2 1                          | theihna turin a hmunhma a hnim awm                       |
|                |              |                                | te thlawhfai thin tur ani.                               |
| STAR FRUIT     | AMAMIT       |                                | <b>4</b> A seng hma kar 6 chhung chu tui tha             |
|                | 1            |                                | taka pek hian a rah tla tur chelh nan                    |
| PLUM AND       | 3            | ATZAWIL                        | leh a rah than that nan te leh a rah                     |
| PEACH          |              |                                | keh tur lakah t a veng thei ani.                         |
| ГЕАСП          |              | Cummonia eiterra               | <b>4</b> Temperture hniam lutuk leh hnawng vang          |
|                | S            | Gummosis, citrus               | hian natna a a tam duh a . Soil bome natna               |
|                | 1            | canker, citrus<br>greening and | laka vennan Bordeaux past hi thing zar leh               |
|                | 1            | Dieback                        | a trangah te hnawih tur ani.                             |
|                | 0            | Fruit fly                      | 🔸 Huan zau takah chuan a par tan tirh leh a              |
|                |              | CALCERCHH                      | rah tan tirin chawlhkar hnih chhung chu                  |
|                | 5            |                                | heng te hian enkawl tur ani: carbaryl 0.2                |
|                |              |                                | percent emaw malathion 0.15 percent                      |
|                | 1            |                                | suspension containing sugar or jeggery at                |
| DI ANTATION OD | 0.7          |                                | 10 g/l.  |
| PLANTATION CR  |              | LUNGLES                        | Numerows store   |
| COFFEE         | All stages   |                                | Nursery stage<br>Thlai chi thlak hma in Azospirillum leh |
|                | 1            | 555                            | Phosphobacterium a enkawl tur ani.                       |
|                |              | N (~~                          | A chi hi December – January ah hmun                      |
|                |              |                                | zawl/rualrem 1.5 - 2.5 cm a in hlatin                    |
|                |              | MY Cat                         | tlar mumal tak siam in chin tur ani.                     |
|                |              |                                | 4 Chuan a chi chu lei tlem te a chhilh a                 |
|                |              |                                | buhpawla khuh tur ani.                                   |
|                |              | Longe margane and              | <b>4</b> Nitin tui pek tur ani a, a sat lutuka loh       |
|                |              | LAWNGTLAL                      | nan niin a chhun loh nan zar hliah tur                   |
|                |              | , SAIHA                        | ani.   |
|                |              |                                | 4 Ni 45 hnu velah a tiak thin a,chu chu                  |
|                |              | 1                              | bag ah an sawn chhuak leh thin ani.                      |
|                |              | NN S                           |  |
|                |              | VI L C                         | 2   P a g e  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| ICAR   |                             |              |  |
|--|-----------------------------|--------------|--|
|  | 5                           | $\sum$       | 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 CR   | Sowing stage                | AIZAVAL      | <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 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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|  |                             |              |  |



ICAR RESEARCH COMPLEX FOR NEH REGION



| Onion and            | Nursery stage | Poly house            | <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 @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>  |
|----------------------|---------------|-----------------------|---|
| capsicum             | MAINIT        | AIZAWAL               | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha 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  |                       | <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</li> </ul> |
|                      |               | PN 2                  |   |
|                      |               |                       | 5   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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> |
|              | AMAIT                | 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<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.  |
|              | 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   | 4 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.   |
|              |                      | 6 N 7   | <b>6</b>   P a g e  |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



|         | 52                               | 5                       | <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 a</li> </ul>   |
|---------|----------------------------------|-------------------------|---|
|         | Preventive                       | 0-3 rd week             | ani.<br><b>4 Ranikhet</b> Disease- an pian atanga n   |
|         | 10                               | U-3 " week              | <b>Ranikhet</b> Disease- an pian atanga n<br>1-6 ah F1 vaccine pek tur ani a, chuar   |
|         | measures                         | an s                    | a puitlingh chuan $R_2B$ vaccine pek tu   |
|         | S                                |                         | ani.  |
|         | 5                                | State 1                 | ✤ B complex with antibodies   |
|         |                                  | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis-</b> Amprolium or  |
|         | R. marine                        |                         | coccidiostat  |
|         | / MAIMIT                         | 4-5 <sup>th</sup> Weeks | + Calcium tonic fortified with B <sub>12</sub>  |
| FISHERY | 8                                | A ATZAWAL               | CHAMPAL   |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thir hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul> |
|         |                                  | 8 N 1                   | 710   |
|         |                                  | 1 4 6                   | 7   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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 1  | Meteorological Observer      | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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

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: - 783/2018/ Bulletin/English

Period: 11 April – 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

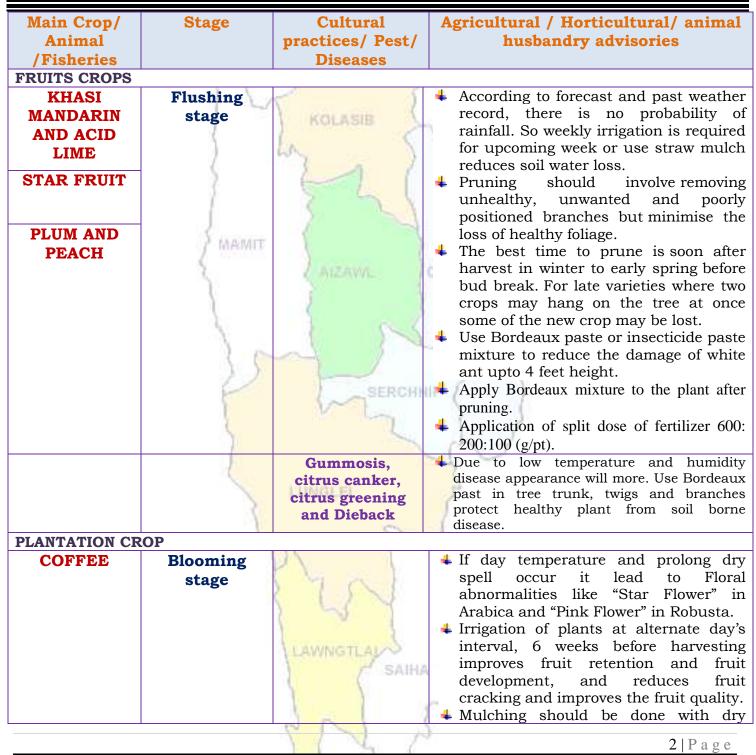
|                       | S 3                                   | P  | 1                          |                          |                 |  |  |
|-----------------------|---------------------------------------|--|----------------------------|--------------------------|-----------------|--|--|
| Parameters            | 11.04.2018                            | 12.04.2018   | 13.04.2018                 | 14.04.2018               | 15.04.2018      |  |  |
| Rainfall (mm)         | 4                                     | 7  | 7                          | 10                       | 18              |  |  |
| Max Temp (°C)         | 30                                    | 30   | 30                         | 30                       | 30              |  |  |
| Min Temp (°C)         | 14                                    | 14   | 14                         | 14                       | 14              |  |  |
| Cloud Coverage        | Partially clear                       | Partially clear  | Partially clear            | Partially clear          | Partially clear |  |  |
| Max RH (%)            | 99                                    | 93   | 87                         | 87                       | 93              |  |  |
| Min RH (%)            | 37                                    | 47   | 43                         | 33                       | 30              |  |  |
| Wind Speed (KmpH)     | 3                                     | 3  | 4                          | 4                        | 4               |  |  |
| *Wind Direction       | S-E                                   | S-E  | S-E                        | S-E                      | S-E             |  |  |
| Souther               | ly- <mark>S</mark> , South-           | Easterly- N-E, Eas<br>Westerly- S-W, We<br>1-31, 2018 (Percent                               | sterly-W, North            | -westerly- N-W.          | anth asis)      |  |  |
| Aizawl- 8.42 mm       |                                       |  | Saiha- 11.37 m             |                          | • 10.51 mm      |  |  |
| (4.20mm)              | Champh                                | (5.10mm)   | (3.60m                     |                          | (10.80mm)       |  |  |
| Lawngtlai-7.84mm      | Lungle                                | ei-6.35mm  | Mamit-8.21m                |                          | ip-6.37mm       |  |  |
| (3.40mm)              | 24                                    | (4.10mm)   | (8.30m                     |                          | (5.20mm)        |  |  |
| Weather summary       | of the past                           |  | <b>`</b>                   |                          | · · ·           |  |  |
| three day             |                                       | Weather forecast valid from 11 <sup>th</sup> April, 2018 To<br>15 <sup>th</sup> April, 2018. |                            |                          |                 |  |  |
| Maximum Tem. (°C):2   |                                       | There are chances of moderate to light rainfall during the                                   |                            |                          |                 |  |  |
| Minimum Tem. (°C):1   |                                       | next 5 days. The maximum and minimum temperatures for  |                            |                          |                 |  |  |
| Maximum RH (%):92-    |                                       | the next 5 days.   |                            |                          |                 |  |  |
| Minimum RH (%):52-'   |                                       | relative humidit   |                            |                          |                 |  |  |
| Wind Direction: Sout  |                                       | minimum may  |                            |                          |                 |  |  |
| Cloud cover: Mainly o | · · · · · · · · · · · · · · · · · · · | 2  |                            |                          |                 |  |  |
| Wind speed: 2-3 km/   | hr                                    | southeasterly with the wind speed of 3-4 km per hour.  |                            |                          |                 |  |  |
| -                     |                                       | Partially clear sky will prevail during the next five days.                                  |                            |                          |                 |  |  |
| Rainfall: 29.7 mm     |                                       | Weekl  | y cumulative               | rainfall: 46.0 1         | nm              |  |  |
| NDVI for Mizoram      |                                       | North East Region 29 for   | Mildly dry<br>districts of | condition oc<br>Mizoram. | curs in all     |  |  |
|                       |                                       | 512  | P                          |                          | 1   P a g e     |  |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                        | 7                                  | KOLASIB       | <ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>   |
|------------------------|------------------------------------|---------------|--|
| Rubber                 | Vegetative<br>stage                | AIZAWL        | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>  |
| Oil plam               | Vegetative/<br>Harvesting<br>stage |               | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| CEREALS AND I<br>Maize | Sowing stage                       | LTHUMBILING . | <b>4</b> Remove all weed plant from the  |
| (Jhum)                 | Sowing stage                       | SAIHA         | <ul> <li>Keep the plant, leaves and wood for dry.</li> </ul>   |
|                        |                                    | PN A          | 3   P a g e  |
|                        |                                    | -             | JIIAgu   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|   | $\sum_{i=1}^{n}$           | KOLASIB                          | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---|----------------------------|----------------------------------|---|
| Rice<br>(Jhum)                          | Sowing stage               | AIZAWL<br>SERCHH                 | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| VEGETABLE CRO<br>Ginger and<br>turmeric | Sowing stage               |                                  | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one manth and 05% at flamming at any set.</li> </ul>  |
| Onion                                   | Bulb<br>formation<br>stage | Poly house<br>LAWNGTLAU<br>SAIHA | <ul> <li>month and 25% at flowering stage.</li> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is</li> </ul>  |
|   |                            | 11 L                             | 4   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|          |                                     | A          | applied 30-40 days after transplanting<br>Provide irrigation if water is require.<br>Low temperature and high humidit   |
|----------|-------------------------------------|------------|---|
|          | 50                                  | 2 3        | <ul> <li>Apply any systemic insecticide 1.</li> <li>ml/lt of water.</li> </ul>  |
| Capsicum | Flowering to fruiting stage         | Poly house | Intercultural operations should be dom<br>regularly to keep the crop free from<br>weeds and aeration of the root system.  |
|          | ]                                   | 54         | <ul> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide treduce damage of chilli thrips.</li> </ul>  |
| Brinjal  | Fruiting to<br>flowering<br>stage   | AIZAWL     | According to forecast and past weather<br>record, there is no probability of<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.  |
|          | 25                                  | SERCHH     | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Fruit and shoot borer attack will man<br/>in dry weather. Apply any systemat</li> </ul>                               |
|          | }                                   |            | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>  |
| Chilli   | Vegetative to<br>flowering<br>stage |            | <ul> <li>According to forecast and past weath record, there is no probability rainfall. So weekly twice irrigation required for upcoming week or us straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> </ul> |
|          |                                     | NJ 1       | <ul> <li>Apply split dose of nitrogenou</li> <li>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>  |
|          |                                     | SAIHA      | In large gardens apply carbaryl 0.2 per cent<br>or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/1<br>fortnightly intervals at flowering and fru-<br>initiation.  |
|          |                                     | en la      | 5   P a g e   |



ICAR RESEARCH COMPLEX FOR NEH REGION



| ICAR         |                |                  |   |
|--------------|----------------|------------------|---|
| Potato       | Harvesting     |                  | 4 If the leaves and plant became dry it   |
|              | stage          |                  | means plant ready for harvesting.   |
|              | Stuge          |                  | 4 Open the furrow with the help of  |
|              |                |                  | spade, harvest all mature tubers.   |
|              | 2.1            | 1 5              | 4 Discard all mother tubers from  |
|              |                | 5                | harvested potato tubers.  |
|              |                | KOLASIE          | Keep 7 -10 days for drying or reduce  |
|              | 6              | 0                | the moisture level in shed dry.   |
|              | )              | 64 J             | <ul> <li>Keep 25% seed for next season sowing.</li> </ul>   |
| Cowpea       | Sowing stage   |                  | <ul> <li>Plough the field properly, at least 2-3</li> </ul>   |
| Cowpea       | Sowing stage   |                  | times.  |
|              | (              |                  | Mix fertilizer with FYM 50:60:60Kg  |
|              |                |                  | e e e e e e e e e e e e e e e e e e e   |
|              | AMAMIT         |                  | /ha.<br>Sow 2-3 seed per whole.   |
|              | 1              | S                | <ul> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm.</li> </ul>                  |
| 01           | Coming stags   | CAIZAWA 1        | <ul> <li>Plough the field with the help of spade.</li> </ul>  |
| Okra         | Sowing stage   | 2                | <ul> <li>Flough the held with the help of space.</li> <li>Sow 2 seed 45 X 45 cm spacing.</li> </ul> |
|              |                | 1 1              |   |
|              | 100            | 3 cal            | Before sowing seed provide one or two<br>invinction   |
|              |                |                  | irrigation.   |
|              |                |                  | Provide fertilizer @ 120: 60: 60 Kg/ha  |
| ANIMAL HUSBI |                |                  |   |
| Pig          | All stages     | SERCHN           | Animals must keep in dry place or   |
|              | 1              | V~ t_            | kept in alleviated area and dry bedding   |
|              |                |                  | (straw) to be provided to young   |
|              |                |                  | animals.  |
|              |                |                  | 4 1 <sup>st</sup> injection at 6 months of age and  |
|              | and the second | WHEN ASSESS      | 2nd injection at 12 months of age   |
|              |                | LUNGLEI          | followed by annual vaccination under  |
|              | 2              |                  | vet supervision against FMD.  |
|              |                | 5                | Reduce concentrate diet up to 5%.   |
|              |                | 11 11            | Provide adequate potable water.   |
|              |                |                  | + In present weather conditions   |
|              |                | 1 7 R. I         | vaccinate against swine fever (Vaccines   |
|              |                | Delation         | available in State Veterinary Departs)  |
|              |                | Porcine          | 1. Culling of positive pigs or piglets.   |
|              |                | Reproductive     |   |
|              |                | Respiratory      |   |
|              |                | Syndrome (PRRS). |   |
|              |                |                  |   |
|              |                |                  | ~   |
|              |                | 2 R              |   |
|              |                | VIN 1            | 6   P a g e   |
|              |                |                  | Uliago  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

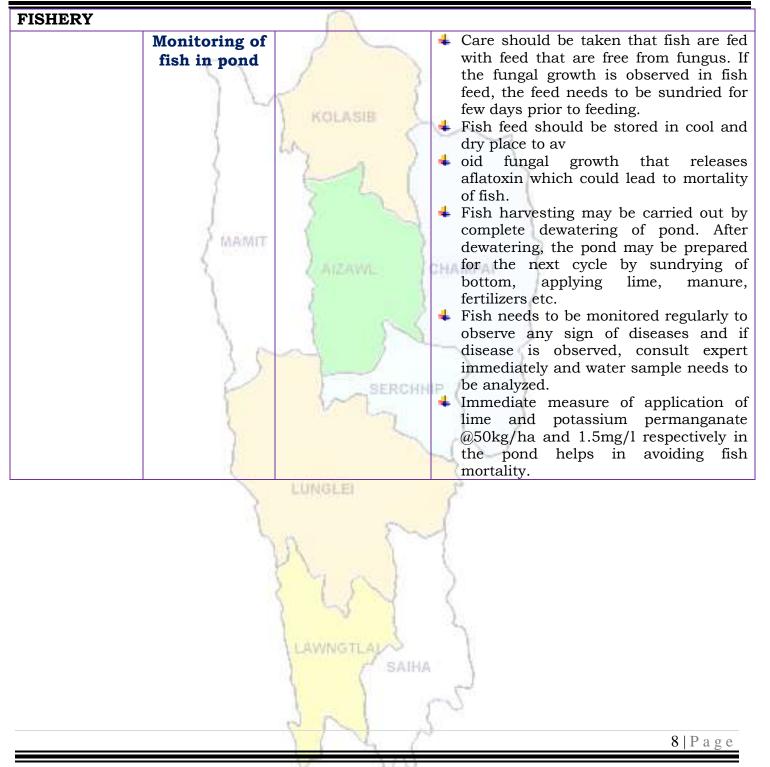


| Cattle  | All age group                           | A                     | <b>4</b> In present weather conditions, special           |
|---------|---|-----------------------|---|
|         | 8- 8F                                   |                       | care should be taken against attack of                    |
|         |   |                       | maggots in the wounds of animals.                         |
|         |   |                       | Application of turpentine oil in the                      |
|         | 2.1                                     | 2                     | wounds followed by application of                         |
|         |   | 5                     | antibiotics for five days is advised.                     |
|         |   | KOLASIB               | <b>4</b> Provide UMB/Molases if possible in the           |
|         | ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                       | feed  |
|         | )                                       | way and               | <b>4</b> Provide 10-30 ml of vitamin B-Complex            |
|         | S                                       | 2 0                   | in feed   |
|         | 5                                       |                       | ↓ 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd      |
|         | 1                                       |                       | injection after 6 months of 1 <sup>st</sup> injection     |
|         |   |                       | followed by annual vaccination under                      |
|         | MAMIT                                   |                       | vet supervision.  |
|         | L march is                              | A second A            | 4 Separate sick animals.                                  |
|         | 1                                       | A ARZAWL              | <b>4</b> The animal should be washed with                 |
|         | 1                                       | 6 N                   | lukewarm water added with little                          |
|         |   | 5                     | potash (KMnO4) or neem leaves.                            |
|         | 2                                       | 1 5                   | 4 Long hair near the                                      |
|         | 1                                       |                       | udder/stomach/back legs should be                         |
|         | 10.5                                    |                       | teamed short.   |
| Poultry | All age group                           | SERCHN                | + Provide preventive dose of anti-coccidial               |
| -       |   | ( Schonn              | drugs to poultry.   |
|         | 5                                       |                       | Proper ventilation of shed.                               |
|         | 1                                       |                       | + Provide glucose/electral along with                     |
|         | 18                                      |                       | vitamin supplements (@5- 6ml/100                          |
|         | 10                                      |                       | birds) with adequate potable water                        |
|         |   | LUNGLEI               | Avoid overcrowding.                                       |
|         | 3                                       | and the second second | <ul> <li>Provide broad-spectrum antihelminthic</li> </ul> |
|         |   | ~                     | drugs under vet supervision and                           |
|         |   | n (~~                 | recommended doses.  |
|         |   | 1                     | + Vaccination as per the schedule with                    |
|         |   |                       | proper consultation with vet.                             |
|         |   |                       | > Day old chick: HVT Marek disease                        |
|         |   | 1 -2 1                | vaccine, 4-7 days:- F/Lasota, 14-18                       |
|         |   |                       | days: Intermediate plus/IBD                               |
|         |   | LAWNGTLAL             | vaccine, 35 days: F/Lasota, 6-7                           |
|         |   | ≓ SAIHA               | weeks: Chicken embryo adopted                             |
|         |   |                       | fowl pox vaccine and 56-70 days:                          |
|         |   |                       | RD R-2B strain.   |
|         |   |                       | Remove wet litter.  |
|         |   | C N N                 | 7   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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

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



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 1  | Meteorological Observer      | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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



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 | <b>No:</b> - | 783 | /2018/ | Bulletin | /Mizo |
|----------|--------------|-----|--------|----------|-------|
|          |              |     |        |          | 10    |

#### Period: 11 April - 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|   |   | P.   |   |   |   |  |
|---|---|--|---|---|---|--|
| Parameters  | 11.04.2018                                  | 12.04.2018   | 13.04.2018  | 14.04.2018  | 15.04.2018  |  |
| Rainfall (mm)   | 4   | 7  | 7   | 10  | 18  |  |
| Max Temp (°C)   | 30  | 30   | 30  | 30  | 30  |  |
| Min Temp (°C)   | 14  | 14   | 14  | 14  | 14  |  |
| Cloud Coverage  | Partially clea:                             | r Partially clear  | Partially clear   | Partially clear   | Partially clear   |  |
| Max RH (%)  | 99  | 93   | 87  | 87  | 93  |  |
| Min RH (%)  | 37  | 47   | 43  | 33  | 30  |  |
| Wind Speed (KmpH)   | 3   | 3  | 4   | 4   | 4   |  |
| *Wind Direction   | S-E   | S-E  | S-E   | S-E   | S-E   |  |
| Northe  | rly- N, North                               | -Easterly- <mark>N-E</mark> , E  | Casterly- E, South  | -Easterly- <mark>S-E</mark> ,   |   |  |
|   |   |  | Westerly-W, North   |   |   |  |
| Status of Pre Mor   | nsoon- March                                | 1-31, 2018 (Perce  | nt of deviation fro   | m normal in pare  | enthesis)   |  |
| Aizawl- 8.42 mm   | Champh                                      | lai- 9.28 mm   | <mark>Saiha- 11.37 m</mark>   |   | - 10.51 mm  |  |
| (4.20mm)  |   | (5.10mm)   | (3.60n  | · · · · · · · · · · · · · · · · · · ·   | (10.80mm)   |  |
| Lawngtlai-7.84mm  | Lungl                                       |  | Mamit-8.21m   |   | <mark>ip-6.37mm</mark>  |  |
| (3.40mm)  |   | (4.10mm)   | (8.30m  |   | (5.20mm)  |  |
| Weather summary of  | of the past                                 | 11 <sup>th</sup> April –   | 15 <sup>th</sup> April, 20  | 18 chhunga  | sik leh sa  |  |
| three day   | S   | dinhmun tur tlangpui   |   |   |   |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):92-<br>Minimum RH (%):52-<br>Wind Direction: Sout<br>Cloud cover: Mainly o<br>Wind speed: 2-3 km/2 | 4-17°C<br>97%<br>71%<br>heasterly<br>cloudy | tura beisei a r<br>vawh lai ber in<br>87-99% leh a l<br>hi darkar kh<br>zawngin a tleh | ung lo awm tur<br>hi. Khua a lum la<br>h 14ºC ni tura b<br>hniam lai berin 3<br>atah 3-4 km w<br>h rin a ni. A tla<br>ng tak hmuh bei | ai berin 30ºC<br>beisei a ni. RH<br>30-47% ni tur a<br>zela chakin ch<br>ngpuiin tun ni | a ni ang a. A<br>san lai berin<br>rin niin. Thli<br>nhaklam awi |  |
| Rainfall: 29.7 mm   |   | Weekly cumulative rainfall: 46.0mm   |   |   |   |  |
| NDVI for Mizoram  |   | North East Region  | Mildly dry<br>districts of  | r condition oc<br>Mizoram.  | curs in all   |  |
|   |   | 512  | 12  |   | 1   P a g e   |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

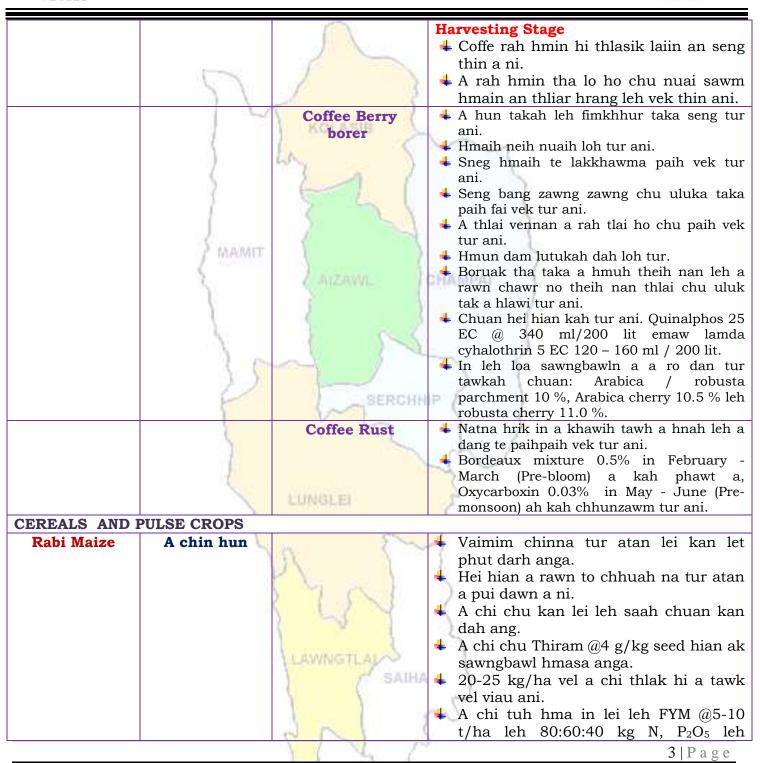


| Main Crop/    | Stage        | Cultural                | Agricultural / Horticultural/ animal   |  |  |  |
|---------------|--------------|-------------------------|--|--|--|--|
| Animal        |              | practices/ Pest/        | husbandry advisories   |  |  |  |
| /Fisheries    |              | Diseases                |  |  |  |  |
| FRUITS CROPS  | •            |                         |  |  |  |  |
| KHASI         | A kui atanga | 2                       | 4 Thlasik laia thlai bul khoro lutuk tur   |  |  |  |
| MANDARIN      | a seng hun   | KOLASIE                 | vennan chuan hnim hnah hring tlai bul  |  |  |  |
| AND ACID      |              | Thomas 2                | velah dahkhawm tur ani.  |  |  |  |
| LIME          | )            | LA N                    | 4 Thlai naupang deuah chuan chawlh   |  |  |  |
|               |              | 1 0 1                   | kar tin a tui pek thin tur ani.  |  |  |  |
| BANANA        | 1            |                         | 4 Leia tha mamawh tawk a hmuh  |  |  |  |
|               | 6            | 2 5                     | theihna turin a hmunhma a hnim awm   |  |  |  |
|               |              |                         | te thlawhfai thin tur ani.   |  |  |  |
| STAR FRUIT    | AMAMIT       |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha   |  |  |  |
|               | 1 meaning    | 5                       | taka pek hian a rah tla tur chelh nan  |  |  |  |
| PLUM AND      | 30           | ATZAWIL I               | leh a rah than that nan te leh a rah   |  |  |  |
|               |              |                         | keh tur lakah t a veng thei ani.   |  |  |  |
| PEACH         | 1            |                         |  |  |  |  |
|               |              | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna |  |  |  |
|               | 1.1.2        | canker, citrus          | laka vennan Bordeaux past hi thing zar leh   |  |  |  |
|               | 5.0          | greening and<br>Dieback | a trangah te hnawih tur ani.   |  |  |  |
|               | 11           | Fruit fly               | Huan zau takah chuan a par tan tirh leh a  |  |  |  |
|               | 1            | FILIT IYERCHN           | rah tan tirin chawlhkar hnih chhung chu  |  |  |  |
|               | 1            | Y La                    | heng te hian enkawl tur ani: carbaryl 0.2  |  |  |  |
|               | S            |                         | percent emaw malathion 0.15 percent  |  |  |  |
|               |              |                         | suspension containing sugar or jeggery at  |  |  |  |
|               |              |                         | 10 g/l.  |  |  |  |
| PLANTATION CR |              | LUNGLEI                 |  |  |  |  |
| COFFEE        | All stages   | energy second l         | Nursery stage  |  |  |  |
|               |              | C                       | + Thlai chi thlak hma in Azospirillum leh  |  |  |  |
|               | 5            | n (~~                   | Phosphobacterium a enkawl tur ani.   |  |  |  |
|               |              |                         | A chi hi December – January ah hmun  |  |  |  |
|               |              | My and                  | zawl/rualrem 1.5 - 2.5 cm a in hlatin<br>tlar mumal tak siam in chin tur ani.        |  |  |  |
|               |              |                         |  |  |  |  |
|               |              | 1 -3 1                  | Chuan a chi chu lei tlem te a chhilh a<br>buhpawla khuh tur ani.                     |  |  |  |
|               |              |                         | <ul> <li>A Nitin tui pek tur ani a, a sat lutuka loh</li> </ul>                      |  |  |  |
|               |              | LAWNGTLAN               | nan niin a chhun loh nan zar hliah tur   |  |  |  |
|               |              | ≓ SAIHA                 |  |  |  |  |
|               |              |                         | Ni 45 hnu velah a tiak thin a,chu chu  |  |  |  |
|               |              |                         | bag ah an sawn chhuak leh thin ani.  |  |  |  |
|               | 1            | NR C                    |  |  |  |  |
|               |              | V V M                   | 2   P a g e  |  |  |  |
|               |              |                         |  |  |  |  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|  | 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   | Sowing stage                | AIZAWL<br>SERCHH | <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> |
| 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 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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|  |                             | 6 V 1            | 4   P a g e  |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



| Onion and<br>capsicumNursery stagePoly houseImage: CapsicumOnion and<br>capsicumNursery stagePoly houseImage: CapsicumOnion and<br>capsicumNursery stagePoly houseImage: CapsicumImage: CapsicumPoly houseImage: CapsicumImage: CapsicumImage: CapsicumPoly houseImage: CapsicumImage: CapsicumImage: CapsicumPoly houseImage: CapsicumImage: CapsicumImage: CapsicumPoly houseImage: CapsicumImage: CapsicumImage: CapsicumPhytopthors<br>blightImage: CapsicumImage: CapsicumImage: CapsicumPhytopthors<br>blightImage: CapsicumImage: CapsicumImage: CapsicumSowing stageImage: CapsicumIm   |             |              |         |  |
|---|-------------|--------------|---------|--|
| capsicumtui pek tin tur ani.capsicumtui pek tin tur ani.tui pek tin tur ani.Thiai bul yawn hnawn nana thlai bula<br>hnim ring yawm khawm hi tui pek<br>zawhah dah tur ani.Thiai bul yawn hnawn nana thlai bula<br>hnim ring yawm khawm hi tui pek<br>zawhah dah tur ani.Phytopthora<br>blightA 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 beanSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radish< | 0           | 5            | KOLASIB | <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<br/>tur ani.</li> </ul>  |
| French beanSowing stageHightemaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle ani<br>Hnch taka 1% Bordeaux chawhpawh<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.French beanSowing stage4 Tui pek à hnihnah hringa khuh tur ani<br>a. than a that theih nan tui pek hma<br>  |             |              | AIZAWA  | <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<br/>to loh nan Pendimethalin @ 3.5ml hi<br/>tui liter 1 zelah pawlh a kah hi a tha<br/>hle ani.</li> </ul>     |
| Carrot and<br>radishSowing stageA 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.Zikhlum lam 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.Thai hna lam chi leh zikhlum lam<br>chi reng reng enkawl nan<br>Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani.   |             | 35           |         | <ul> <li>emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani</li> <li>Hneh taka 1% Bordeaux chawhpawlh 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>  |
| 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 nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.   | French bean | Sowing stage | LUNGLEI | A than duna theih nan leh hnim to loh<br>na turin a kung bulah lei vur chhoh zel<br>tur ani.   |
|   |             | Sowing stage |         | <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> |
|   |             |              | P 12 2  | )  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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> |
|              | AMAINIT              | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | <ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>   |
|              | 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<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.  |
|              | 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.   |
|              |                      | 4 N 2   | <b>6</b>   P a g e  |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



| <ul> <li>Preventive measures</li> <li>O-3 rd week</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thiak sak thut loh tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thiak sak thut loh tu ani.</li> <li>Ranikhet Disease- an pian atanga na 1-6 ah F1 vaccine pek tur ani a, chua a puitlingh chuan R<sub>2</sub>B vaccine pek tu ani.</li> <li>B complex with antibodies</li> <li>4-5<sup>th</sup> Weeks</li> <li>Colcitiosis- Amprolium o coccidiostat</li> <li>Concidiosisa- Amprolium o coccidiostat</li> <li>Concidiosis- Amprolium o coccidiostat</li> <li>Concidiosis- Amprolium o coccidiostat</li> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw i a hmuar lohna turi sa phoro phavt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi shmun ro leh uap lutuk lo ad hathat tur ani a, funuar atang a tur lo insean thin, aflatoxin avang a sangha thi lai atangin sangha a haim phab thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih a ti awlsam a, diltu a hman hia agangha natna avang a thi tur lai atangin a veng thei.</li> </ul> |         |             |                       |   |
|--|---------|-------------|-----------------------|---|
| Preventive measures       0-3 rd week       4 Ranikhet Disease- an pian atanga m         1-6 ah FI vacine pek tur ani a, chuaa a puitingh chuan R <sub>0</sub> B vaccine pek tu ani.       a puitingh chuan R <sub>0</sub> B vaccine pek tu ani.         4 th weeks       4 Coccidiosis- Amprolium o coccidiostat         4-5th Weeks       4 Calcium tonic fortified with B <sub>12</sub> FISHERY       4-5th Weeks       4 Calcium tonic fortified with B <sub>12</sub> FISHERY       4.5th Weeks       4 Calcium tonic fortified with B <sub>12</sub> FISHERY       4 Sangha te hi chaw a hmuar kai le chauh pek thin tur ani. Sangha chaw li a hmuar lohna turi ni, aflatoxin avang a sangha thi lai atongin sangha a him phah thin.         Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a di buatsaih tur ani.       5 Sangha te natana hum hah thin.         Honor, chinai phul, leitha hman leh tu.       5 Sangha te natana avang a thi tur ali atangin a yengh thi ana turi tur ani.   |         | 5           | $\sum$                | Chaw a hmuar/thing pek loh tur ani a<br>an chaw eitur thlak sak thut loh tu   |
| measures       1-6 ah F1 vaccine pek tur ani a, chuat a puttingh chuan R2B vaccine pek tu ani.         4th weeks       Coccidiosis-<br>coccidiositat         4-5th Weeks       Coccidiositat         FISHERY       4-5th Weeks         Monitoring<br>(Sangha<br>enkawl)       Sangha te hi chaw a hmuar kai h<br>chauh pek thin tur ani. Sangha chaw i<br>a phoro phawt tur ani.         Sangha te hi chaw a hmuar kai h<br>chauh pek thin tur ani.       Sangha chaw hi a hmuar lohna turi<br>hmun ro leh uap lutuk lo ah dahtha<br>tur ani a, hmuar atang a tur lo insean<br>thin, aflatxin avang a sangha thi lai<br>atangin sangha a him phah thin.         Dil sah kang veka sangha man thi<br>hian a kumleh a sangha khawinan a di<br>buatsaih a ti awlsam a, dil mawn<br>phoro, chinai phul, leitha hman leh tu<br>dang in dil buatsaih tur ani.         A ranglam a chinai @50kg/ha lei<br>tuisen @1.5mg/l diltui a hman hiai<br>sangha natna avang a thi tur lai<br>atangin a veng thei.  |         | Droventive  | 0.3 rd week           |   |
| <ul> <li>a puitlingh chuan R<sub>2</sub>B vaccine pek tu ani.</li> <li>B complex with antibodies</li> <li>4<sup>th</sup> weeks</li> <li>Coccidiosis- Amprolium o coccidiostat</li> <li>4-5<sup>th</sup> Weeks</li> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul> FISHERY Monitoring (Sangha enkawl) <ul> <li>Sangha te hi chaw a hmuar kai h chauh pek thin tur ani. Sangha chaw i o hmuar anih chuan pek hma in ni si a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean in, aflatoxin avang a sangha thi lal atangin sangha a him phah thin. <ul> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di uautasih a ti avlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani. <ul> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur lal atangin a veng thei.</li> </ul></li></ul></li></ul>  |         | 1           | 0-0 WCCK              | -   |
| <ul> <li>ani.</li> <li>B complex with antibodies</li> <li>Coccidiosis- Amprolium o<br/>coccidiosiat</li> <li>Coccidiosiat</li> <li>Coccidiosiat</li> <li>Calcium tonic fortified with B12</li> <li>FISHERY</li> <li>Monitoring<br/>(Sangha<br/>enkawl)</li> <li>Sangha te hi chaw a hmuar kai h<br/>chauh pek thin tur ani. Sangha chaw i<br/>lo hmuar anih chuan pek hma in ni si<br/>a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin<br/>imun ro leh uap lutuk lo ah dahtha<br/>tur ani a, hmuar atang a tur lo insean<br/>thin, aflatoxin avang a sangha thi lal<br/>atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thii<br/>hian a kumleh a sangha khawinan a di<br/>buatsaih a ti awisam a, dil mawn,<br/>phoro, chinai phul, leitha hman leh tu<br/>dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en<br/>tih enfiah fo a tha a, natna hmuh anil<br/>chuan mithiam te rawn vat a, diltu<br/>enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel<br/>tuisen @1.5mg/l diltui a hman hia<br/>sangha natna avang a thi tur lal<br/>atangin a veng thei.</li> </ul>   |         | measures    | wy )                  |   |
| 4th weeks       4 Coccidiosis-<br>coccidiostat       Amprolium<br>occcidiostat         4-5th Weeks       4 Calcium tonic fortified with B12         FISHERY       4 Sangha te hi chaw a hmuar kai h<br>chauh pek thin tur ani. Sangha chaw<br>lo hmuar anih chuan pek hma in ni si<br>a phoro phawt tur ani.         * Sangha chaw hi a hmuar lohna turin<br>imur ro leh uap lutuk lo ah dahtha<br>tur ani a, hmuar atang a tur lo insean<br>thin, aflatoxin avang a sangha thi lal<br>atangin sangha a him phah thin.         * Dil sah kang veka sangha man thii<br>hian a kumleh a sangha khawinan a di<br>buatsaih a ti awlsam a, dil mawn<br>phoro, chinai phul, leitha hman leh tu<br>dang in dil buatsaih tur ani.         * Sangha te natna lak atangin an him en<br>tih cnifah fo a tha a, natna hmuh anil<br>chuan mithiam te rawn vat a, diltu<br>enfiah vat tur ani.         * A ranglam a chinai @50kg/ha lel<br>tusen @1.5mg/l diltui a hman hia<br>sangha natna avang a thi tur lal<br>atangin a veng thei.   |         | 5           |                       |   |
| <ul> <li>4-5th Weeks</li> <li>Calcium tonic fortified with B12</li> <li>FISHERY</li> <li>Monitoring<br/>(Sangha<br/>enkawl)</li> <li>Sangha te hi chaw a hmuar kai h<br/>chauh pek thin tur ani. Sangha chaw to<br/>hmuar anih chuan pek hma in ni si<br/>a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi<br/>hmun ro leh uap lutuk lo ah dahtha<br/>tur ani a, hmuar atang a tur lo insean<br/>thin, aflatoxin avang a sangha thi lal<br/>atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin<br/>hian a kumleh a sangha khawinan a di<br/>buatsaih a ti awlsam a, dil mawn,<br/>phoro, chinai phul, leitha hman leh tu<br/>dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en<br/>tih enfiah fo a tha a, natna hmuh anil<br/>chuan mithiam te rawn vat a, diltu<br/>enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel<br/>tuisen @1.5mg/l diltui a hman hiai<br/>sangha natna avang a thi tur lal<br/>atangin a veng thei.</li> </ul>  |         |             | 5 6                   | B complex with antibodies   |
| FISHERY         Monitoring<br>(Sangha<br>enkawl)         * Sangha te hi chaw a hmuar kai h<br>chauh pek thin tur ani. Sangha chaw a<br>lo hmuar anih chuan pek hma in ni si<br>a phoro phawt tur ani.         * Sangha chaw hi a hmuar lohna turin<br>hmun ro leh uap lutuk lo ah dahtha<br>tur ani a, hmuar atang a tur lo insean<br>thin, aflatoxin avang a sangha thi lal<br>atangin sangha a him phah thin.         * Dil sah kang veka sangha man thi<br>hian a kumleh a sangha khawinan a di<br>buatsaih a ti awlsam a, dil mawn,<br>phoro, chinai phul, leitha hman leh tu<br>dang in dil buatsaih tur ani.         * Sangha te natna lak atangin an him en<br>tih enfiah fo a tha a, natna hmuh anil<br>chuan mithiam te rawn vat a, diltu<br>enfiah vat tur ani.         * A ranglam a chinai @50kg/ha lel<br>tuisen @1.5mg/l diltui a hman hia<br>sangha natna avang a thi tur lal<br>atangin a veng thei.   |         |             | 4 <sup>th</sup> weeks | 1   |
| FISHERY       Monitoring<br>(Sangha<br>enkawl)       Sangha te hi chaw a hmuar kai h<br>chauh pek thin tur ani. Sangha chaw a<br>lo hmuar anih chuan pek hma in ni sa<br>a phoro phawt tur ani.         Sangha chaw li<br>enkawl)       Sangha chaw hi a hmuar lohna turii<br>hmun ro leh uap lutuk lo ah dahtha<br>tur ani a, hmuar atang a tur lo insean<br>thin, aflatoxin avang a sangha thi lal<br>atangin sangha a him phah thin.         Di sah kang veka sangha man thin<br>hian a kumleh a sangha khawinan a di<br>buatsaih a ti awlsam a, dil mawn<br>phoro, chinai phul, leitha hman leh tu<br>dang in dil buatsaih tur ani.         Sangha te natna lak atangin an him en<br>tih enfiah fo a tha a, natna hmuh anii<br>chuan mithiam te rawn vat a, diltu<br>enfiah vat tur ani.         A ranglam a chinai @50kg/ha lel<br>tuisen @1.5mg/l diltui a hman hia<br>sangha natna avang a thi tur lal<br>atangin a veng thei.  |         | S among     |                       |   |
| <ul> <li>Monitoring (Sangha enkawl)</li> <li>Sangha te hi chaw a hmuar kai la chauh pek thin tur ani. Sangha chaw a horo phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en the enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hiai sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>   |         | Intervent i |                       |   |
| <ul> <li>(Sangha enkawl)</li> <li>(Sangha enkawl)</li> <li>(Sangha enkawl)</li> <li>(Sangha enkawl)</li> <li>(Sangha chawhi a hmuar bana turia humur anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turia hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lal atangin a veng thei.</li> </ul>   | FISHERY | 2           | ANZAWAL               | CHAMPAI }   |
| 7LD a co   |         | (Sangha     |                       | <ul> <li>chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insean thin, aflatoxin avang a sangha thi lal atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a di buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en tih enfiah fo a tha a, natna hmuh anil chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lel tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur lal atangin a veng thei.</li> </ul> |
|  |         |             | 6 1 1                 | 7   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)



#### **Expert committee members:**

| Dr. S.B. Singh          |    | Joint Director                              | basantasinghsoibam@rediffmail.com |  |
|-------------------------|----|---|-----------------------------------|--|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)                  | sauravs.saha@gmail.com            |  |
| Dr. T. Boopathi         | :  | Scient <mark>ist (Agril Entomol</mark> ogy) | boopathiars@gmail.com             |  |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)                 | ratanplantpatho@gmail.com         |  |
| Dr. Lungmuana           | 1  | Scientist (Soil Fertility)                  | lmsingson@gmail.com               |  |
| Mr. P.L. Lalrinsanga    |    | Scientist (Aquaculture)                     | viensky2@gmail.com                |  |
| Dr. Dr. V. Dayal        | 2: | Scientist (Horticulture)                    | Vishambhai5009@gmail.com          |  |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist                        | samuelpachuau10@gmail.com         |  |
| Mr. Samik Chowdhury     | :  | Technical Officer                           | samikchowdhury33@gmail.com        |  |
| Mr. Evans Syiem         | M  | Meteorological Observer                     | evansmeteo@gmail.com              |  |

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



8 | 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:** Kolasib

Bulletin No: - 783/2018/ Bulletin/English

Period: 11 April – 15 April, 2018

Date of issue: 10<sup>th</sup> April, 2018

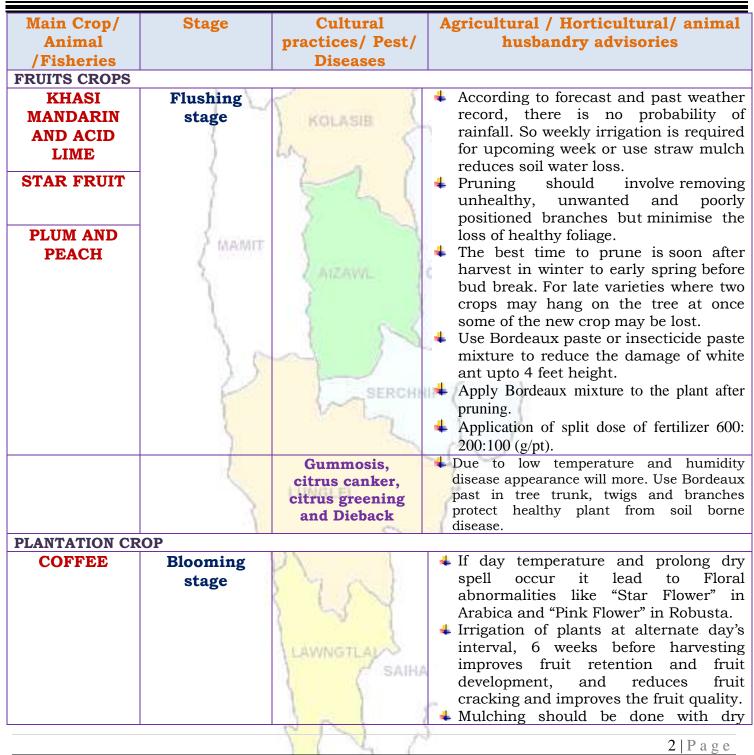
|   | 1 1                                   | SC.  | 1                          |                            |                 |  |  |
|---|---------------------------------------|--|----------------------------|----------------------------|-----------------|--|--|
| Parameters                                  | 11.04.2018                            | 3 12.04.2018   | 13.04.2018                 | 14.04.2018                 | 15.04.2018      |  |  |
| Rainfall (mm)                               | 5                                     | 13   | 10                         | 13                         | 19              |  |  |
| Max Temp (°C)                               | 31                                    | 31   | 31                         | 31                         | 31              |  |  |
| Min Temp (°C)                               | 17                                    | 17   | 17                         | 17                         | 17              |  |  |
| Cloud Coverage                              | Partially clear                       | r Partially clear  | Partially clear            | Partially clear            | Partially clear |  |  |
| Max RH (%)                                  | 93                                    | 96   | 96                         | 100                        | 99              |  |  |
| Min RH (%)                                  | 39                                    | 46   | 33                         | 35                         | 37              |  |  |
| Wind Speed (KmpH)                           | 3                                     | 3  | 5                          | 3                          | 3               |  |  |
| *Wind Direction                             | S-E                                   | S-E  | S-E                        | S-E                        | S-E             |  |  |
| Souther                                     | ly- <mark>S</mark> , South-           | -Easterly- <mark>N-E</mark> , Ea<br>Westerly- <mark>S-W</mark> , W | esterly-W, North           | n-westerly- N-W.           |                 |  |  |
|   |                                       | 1-31, 2018 (Percen   |                            |                            |                 |  |  |
| Aizawl- 8.42 mm                             | Champh                                | lai- 9.28 mm   | Saiha- 11.37 m             |                            | 10.51 mm        |  |  |
| (4.20mm)                                    |                                       | (5.10mm)   | (3.60m                     |                            | (10.80mm)       |  |  |
| Lawngtlai-7.84mm                            | Lungl                                 | ei-6.35mm  | Mamit-8.21m                |                            | ip-6.37mm       |  |  |
| (3.40mm)                                    | 0.11                                  | (4.10mm)   | (8.30m                     |                            | (5.20mm)        |  |  |
| Weather summary of                          |                                       | Weather forecast valid from 11 <sup>th</sup> April, 2018 To        |                            |                            |                 |  |  |
| three day                                   |                                       | 15 <sup>th</sup> April, 2018.                                      |                            |                            |                 |  |  |
| Maximum Tem. (°C):2                         |                                       | There are chances of moderate to light rainfall during the         |                            |                            |                 |  |  |
| Minimum Tem. (°C):1                         |                                       | next 5 days. The maximum and minimum temperatures for              |                            |                            |                 |  |  |
| Maximum RH (%):83-                          |                                       | the next 5 days may range for 31°C and 17°C. Maximum               |                            |                            |                 |  |  |
| Minimum RH (%):61-0<br>Wind Direction: Sout |                                       | relative humidity is expected in the range of 93-100% and          |                            |                            |                 |  |  |
| Cloud cover: Mainly of                      |                                       | minimum may from 33-46%. Wind direction would be                   |                            |                            |                 |  |  |
| Wind speed: 2 km/hr                         | · · · · · · · · · · · · · · · · · · · | southeasterly with the wind speed of 3-5 km per hour.              |                            |                            |                 |  |  |
| wind speed. 2 km/m                          |                                       | Partially clear sky will prevail during the next five days.        |                            |                            |                 |  |  |
| Rainfall: 36.2 mm                           |                                       | Weekly cumulative rainfall: 60.0 mm                                |                            |                            |                 |  |  |
| NDVI for Mizoram                            |                                       | North East Region 3  | Mildly dry<br>districts of | r condition oo<br>Mizoram. | curs in all     |  |  |
|   |                                       | 8151   | 2                          |                            | 110             |  |  |
|   |                                       |  | 6                          |                            | 1   P a g e     |  |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Public Vi           | KOLASIB                         | <ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>   |
|---------------------|---------------------------------|--|
| Rubber Ve           | egetative<br>stage              | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>  |
| Ha                  | getative/<br>urvesting<br>stage | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| CEREALS AND PULSE   |                                 |  |
| Maize Sow<br>(Jhum) | ving stage                      | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> </ul>   |
|                     | 6                               | 3   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                 | 7                          | KOLASIB    | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---------------------------------|----------------------------|------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CRO | Sowing stage               | AIZAWA     | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm</li> </ul>  |
| Ginger and<br>turmeric          | Sowing stage               |            | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul>  |
| Onion                           | Bulb<br>formation<br>stage | Poly house | <ul> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be done regularly to keep the crop free from weeds and better growth of bulb.</li> <li>Remaining quantity of nitrogen is</li> </ul>   |
|                                 |                            | NN C       | 4   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|          |                                     | A          | <ul> <li>applied 30-40 days after transplanting</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity</li> </ul>  |
|----------|-------------------------------------|------------|---|
|          | 5                                   | 23         | <ul> <li>Low temperature and high human<br/>influence the population of onion trips</li> <li>Apply any systemic insecticide 1.<br/>ml/lt of water.</li> </ul>   |
| Capsicum | Flowering to<br>fruiting stage      | Poly house | <ul> <li>Intercultural operations should be don<br/>regularly to keep the crop free fror<br/>weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide t<br/>reduce damage of chilli thrips.</li> </ul>   |
| Brinjal  | Fruiting to<br>flowering<br>stage   | AIZAWL     | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or us straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mark in dry weather. Apply any systematic insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next rate season.</li> </ul> |
| Chilli   | Vegetative to<br>flowering<br>stage | LUNGLEI    | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or us straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|          |                                     | SAIHA      | In large gardens apply carbaryl 0.2 per cer<br>or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/1 a<br>fortnightly intervals at flowering and fru<br>initiation.  |
|          |                                     | PN 1       | 5   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)



| Potato      | Harvesting    |              | 4              | If the leaves and plant became dry it            |
|-------------|---------------|--------------|----------------|--|
|             | stage         |              |                | means plant ready for harvesting.                |
|             |               |              | 4              | Open the furrow with the help of                 |
|             |               |              |                | spade, harvest all mature tubers.                |
|             | 2.1           | 1            | 4              | Discard all mother tubers from                   |
|             |               | $\nabla$     | -              | harvested potato tubers.                         |
|             |               | KOLASIE      |                | Keep 7 -10 days for drying or reduce             |
|             | 1             | 6            | 1              | the moisture level in shed dry.                  |
|             | )             | an I         |                | Keep 25% seed for next season sowing.            |
| 0           | O             | 1 1 1        | -              |  |
| Cowpea      | Sowing stage  |              | -              | Plough the field properly, at least 2-3          |
|             | 1             | 2 5 1        |                | times.   |
|             |               | P = -2       | +              | Mix fertilizer with FYM 50:60:60Kg               |
|             | Second Second | 1            |                | /ha.   |
|             | J' MARMIT     | 1 1          | +              | Sow 2-3 seed per whole.                          |
|             | 5             | Laszana J    | . <del>•</del> | Spacing should be 30 X 20 cm.                    |
| Okra        | Sowing stage  | american i   | +              | Plough the field with the help of spade.         |
|             |               | 1            | 4              | Sow 2 seed 45 X 45 cm spacing.                   |
|             | - A.          | Sec. 1       | 4              | Before sowing seed provide one or two            |
|             |               | 1 1          |                | irrigation.                                      |
|             | 1             | 1 1 1 ×      | -              | Provide fertilizer @ 120: 60: 60 Kg/ha           |
| ANIMAL HUSB | ENDARY        |              |                | <u> </u>   |
| Pig         | All stages    | SERCHN       | (m)            | Animals must keep in dry place or                |
| Ŭ           |               | 1~1 SCRONN   |                | kept in alleviated area and dry bedding          |
|             | <u>y</u>      |              |                | (straw) to be provided to young                  |
|             | S.            |              |                | animals.   |
|             | 1             |              | 4              | 1 <sup>st</sup> injection at 6 months of age and |
|             | 1             |              | -              | 2nd injection at 12 months of age                |
|             |               | LUNGLEI      |                | followed by annual vaccination under             |
|             | S.            | ILM IN CELEX | 12             | vet supervision against FMD.                     |
|             |               |              | 4              | Reduce concentrate diet up to 5%.                |
|             |               | 5            | 1              | Provide adequate potable water.                  |
|             |               | I            | 1              | In present weather conditions                    |
|             |               |              | 1              | 1  |
|             |               | M T Tot      | - 3            | vaccinate against swine fever (Vaccines          |
|             |               |              | -6             | available in State Veterinary Departs)           |
|             |               | Porcine      | 3              | . Culling of positive pigs or piglets.           |
|             |               |              | 1              |  |
|             |               | Reproductive | 2              |  |
|             |               | Respiratory  |                |  |
|             |               |              |                |  |
|             |               | Respiratory  |                |  |
|             |               | Respiratory  | -              |  |
|             |               | Respiratory  | ~              |  |
|             |               | Respiratory  | ~              | 6   P a g e                                      |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

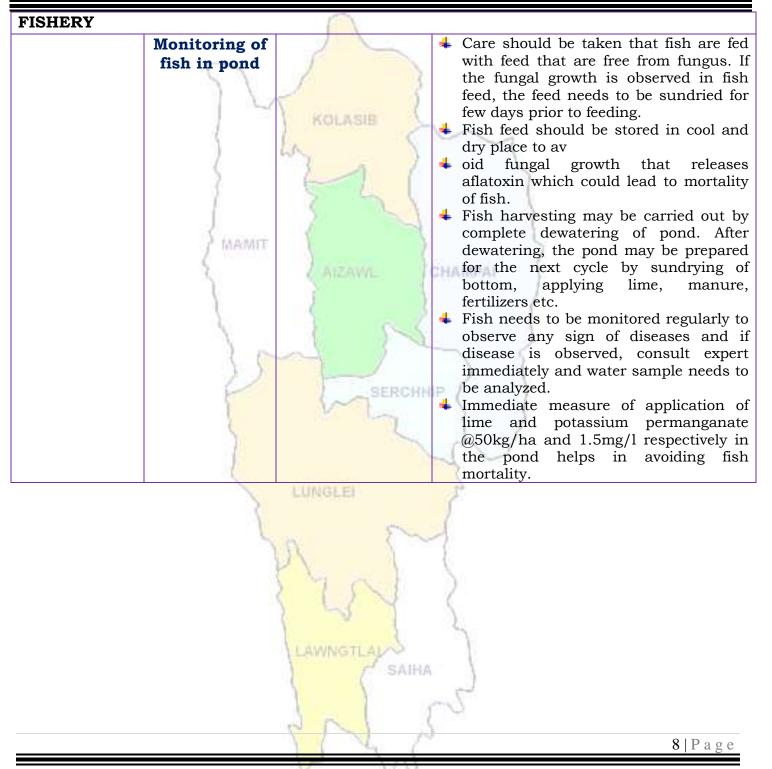


| Poultry       All age group         Provide places/electral along with vit vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Provide places/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable wa  | Cattle  | All age group | 0  | 4 In present weather conditions, special |
|---|---------|---------------|--|--|
| <ul> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>Provide preventive dose of anti-coccidia drugs to poulty.</li> <li>Provide proventive dose of anti-coccidia drugs to poulty.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 bitrains) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days: - F/Lasota, 14-18 days: Intermediate plus/IBH vaccine, 35 days: F/Lasota, 6-70 weeks; Chicken embryo adoptec fowl pox vaccine and 56-70 days</li> <li>RD R-2B strain.</li> </ul>  |         | 001           |  | care should be taken against attack of   |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>Provide by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthindrugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 47 days: – F/Lasota, 14-18 days: Intermediate plus/IBH vaccine, 35 days: F/Lasota, 6-6 weeks: Chicken embryo adopted fow pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  |         |               |  | maggots in the wounds of animals.        |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>Provide by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthindrugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 47 days: – F/Lasota, 14-18 days: Intermediate plus/IBH vaccine, 35 days: F/Lasota, 6-6 weeks: Chicken embryo adopted fow pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  |         |               | 1  |  |
| Poultry       All age group         Powide preventive dose of anti-coccidia drugs to poultry.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthic vitage under vet supervision and recommended doses.         Vaccination as per the schedule with vaccine, 35 days: F/Lasota, 14-18 days: Intermediate plus/IBT vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopter fowl pox vaccine and 56-70 days  |         | 2.1           | 1 2  |  |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>From the transmission of the transmission of the transmission of the transmission of transmissio</li></ul> |         |               | N  |  |
| Poultry       All age group         All age group       Provide preventive dose of anti-coccidia drugs to poultry.         Poultry       All age group         Provide preventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.         Provide broad-spectrum antihelimithid drugs under vet supervision and recommended doses.         Provide broad-spectrum antihelimithid drugs.         Poper consultation with vet.         Poper vacitation as per the schedule with proper cons  |         |               | KOLASIB  |  |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Foultry</li> <li>All age group</li> <li>Poultry</li> <li>All age group</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidia drugs to poultry.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthid drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Mark disease vaccine, 4-7 days:- F/Lasota, 14-16 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adoptee fow pox vaccine and 56-70 days RD R-2B strain.</li> </ul>   |         | 1             | (  |  |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Foultry</li> <li>All age group</li> <li>Provide preventive dose of anti-coccidia drugs to pollty.</li> <li>Provide preventive dose of anti-coccidia drugs to pollty.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthid drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Mark disea</li></ul>  |         | )             | way in the   |  |
| Poultry       All age group         Provide preventive dose of anti-coccidia drugs to poultry.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthind drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fow pox vaccine and 56-70 days. RD R-2B strain.  |         | S             | 2 1  | -  |
| Poultry       All age group         Provide preventive dose of anti-coccidia drugs to poultry.         Provide glucose/electral along with vitamin supplements (@2- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthin drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBI vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted for yow vaccine and 56-70 days. RD R-2B strain.   |         | 5             | and the second sec |  |
| Poultry       All age group         Provide preventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthind drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBL vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fow pox vaccine and 56-70 days RD R-2B strain.   |         | E.            |  |  |
| Poultry       All age group         Provide preventive dose of anti-coccidia drugs to poultry.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-16 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fow pox vaccine and 56-70 days RD R-2B strain.  |         |               |  |  |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Foultry</li> <li>All age group</li> <li>Provide group</li> <li>Provide preventive dose of anti-coccidia drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthia drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  |         | MAMIE         | 1  |  |
| <ul> <li>Poultry</li> <li>All age group</li> <li>Foultry</li> <li>All age group</li> <li>Foultry</li> <li>All age group</li> <li>Forvide preventive dose of anti-coccidia drugs to poultry.</li> <li>Provide preventive dose of anti-coccidia drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthid drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:-F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-70 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>   |         | 2. 100000.0   | S  | -  |
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| Poultry       All age group         Poultry       Provide preventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthid drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-70 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.   |         | 1             | 2 1  |  |
| Poultry       All age group       Image for the second sec                       |         |               | 6 5  |  |
| Poultry       All age group         Poultry       All age group         Poultry       Provide greventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthin drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBU vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.   |         |               | and and  |  |
| Poultry       All age group       Frovide preventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.       Proper ventilation of shed.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water       Avoid overcrowding.         Avoid overcrowding.       Provide broad-spectrum antihelminthin drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.       Day old chick: HVT Marek disease vaccine, 4-7 days: ¬F/Lasota, 14-18 days: Intermediate plus/IBL vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.   |         |               |  |  |
| Poultry       All age group       Image: Provide preventive dose of anti-coccidia drugs to poultry.         Proper ventilation of shed.       Proper ventilation of shed.         Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water         Avoid overcrowding.         Provide broad-spectrum antihelminthing drugs under vet supervision and recommended doses.         Vaccination as per the schedule with proper consultation with vet.         > Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.   |         |               |  |  |
| <ul> <li>drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthind drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>&gt; Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  | Poultry | All age group |  |  |
| <ul> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:- F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>   | roundry | mi age group  | SERCHH   |  |
| <ul> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthia drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days: F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>   |         | 1             | No tan   |  |
| <ul> <li>vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthia drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days: ¬F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  |         | 5             |  |  |
| <ul> <li>birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with proper consultation with vet.</li> <li>Day old chick: HVT Marek disease vaccine, 4-7 days:-F/Lasota, 14-18 days: Intermediate plus/IBE vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days RD R-2B strain.</li> </ul>  |         |               |  |  |
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| proper consultation with vet.<br>> Day old chick: HVT Marek disease<br>vaccine, 4-7 days:¬F/Lasota, 14-18<br>days: Intermediate plus/IBE<br>vaccine, 35 days: F/Lasota, 6-7<br>weeks: Chicken embryo adopted<br>fowl pox vaccine and 56-70 days<br>RD R-2B strain.  |         |               | 11   |  |
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| days: Intermediate plus/IBE<br>vaccine, 35 days: F/Lasota, 6-7<br>weeks: Chicken embryo adopted<br>fowl pox vaccine and 56-70 days<br>RD R-2B strain.   |         |               | 0701   | Day old chick: HVT Marek disease         |
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| vaccine, 35 days: F/Lasota, 6-7<br>weeks: Chicken embryo adopted<br>fowl pox vaccine and 56-70 days<br>RD R-2B strain.  |         |               |  |  |
| weeks: Chicken embryo adopted<br>fowl pox vaccine and 56-70 days<br>RD R-2B strain.   |         |               | Commence and   |  |
| fowl pox vaccine and 56-70 days<br>RD R-2B strain.  |         |               |  |  |
| RD R-2B strain.   |         |               | SAIHA  |  |
|   |         |               | 1 1  |  |
|   |         |               |  |  |
|   |         |               | N N N  |  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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

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



#### Expert committee members:

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 1  | Meteorological Observer      | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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



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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, Cumphati)

Guwahati)



#### **District:** Kolasib

| Bulletin | <b>No:</b> - | 783 | /2018/ | Bulletin | /Mizo |
|----------|--------------|-----|--------|----------|-------|
|          |              |     |        | - A -    | 0     |

Period: 11 April - 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|  |   | - 10 M   |  |   |   |
|--|---|--|--|---|---|
| Parameters   | 11.04.2018                                  | 12.04.2018   | 13.04.2018   | 14.04.2018  | 15.04.2018  |
| Rainfall (mm)  | 5   | 13   | 10   | 13  | 19  |
| Max Temp (°C)  | 31  | 31   | 31   | 31  | 31  |
| Min Temp (°C)  | 17  | 17   | 17   | 17  | 17  |
| Cloud Coverage   | Partially clear                             | Partially clear  | Partially clear  | Partially clear   | Partially clear   |
| Max RH (%)   | 93  | 96   | 96   | 100   | 99  |
| Min RH (%)   | 39  | 46   | 33   | 35  | 37  |
| Wind Speed (KmpH)  | 3   | 3  | 5  | 3   | 3   |
| *Wind Direction  | S-E   | S-E  | S-E  | S-E   | S-E   |
| Souther  | rly- <mark>S</mark> , South-V               | Easterly- <mark>N-E</mark> , Eas<br>Westerly- <mark>S-W</mark> , We  | sterly-W, North  | -westerly- N-W.   |   |
| Status of Pre Mor<br>Aizawl- 8.42 mm   |   | 31, 2018 ( <i>Percent</i><br>ai- 9.28 mm   | of deviation fro<br>Saiha- 11.37 m   |   | enthesis)<br>• 10.51 mm   |
| (4.20mm)   |   | (5.10mm)   | (3.60m   |   | (10.80mm)   |
| Lawngtlai-7.84mm   | Lungle                                      | i-6.35mm   | Mamit-8.21m  | n Serchh  | ip-6.37mm   |
| (3.40mm)   |   | (4.10mm)   | (8.30m   |   | (5.20mm)  |
| Weather summary  | of the past                                 | 11 <sup>th</sup> April – 1   | 5 <sup>th</sup> April, 20  | 18 chhunga  | sik leh sa  |
| three day  |   |  | dinhmun tu   | r tlangpui  |   |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):83-<br>Minimum RH (%):61-(<br>Wind Direction: Sout<br>Cloud cover: Mainly o<br>Wind speed: 2 km/hr<br>Rainfall: 36.2 mm | 7-21°C<br>91%<br>69%<br>heasterly<br>cloudy | Tun ni 3 chhur<br>tura beisei a ni.<br>vawh lai ber in<br>93-100% leh a l<br>Thli hi darkar k<br>zawngin a tleh s<br>hian khawthiang<br><b>Weekl</b> | Khua a lum l<br>17ºC ni tura b<br>nniam lai berin<br>hatah 3-5 km<br>rin a ni. A tla<br>g tak hmuh bei | ai berin 31ºC a<br>beisei a ni. RH<br>n 33-46% ni tu<br>vela chakin c<br>ngpuiin tun ni | a ni ang a. A<br>san lai berin<br>ar a rin niin.<br>hhaklam awi<br>nga chhung |
| NDVI for Mizoram   |   | North East Region 21 for   | Mildly dry<br>districts of   | condition oc<br>Mizoram.  | curs in all   |
|  |   | 5/2  | 12   |   | 1   Page  |



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

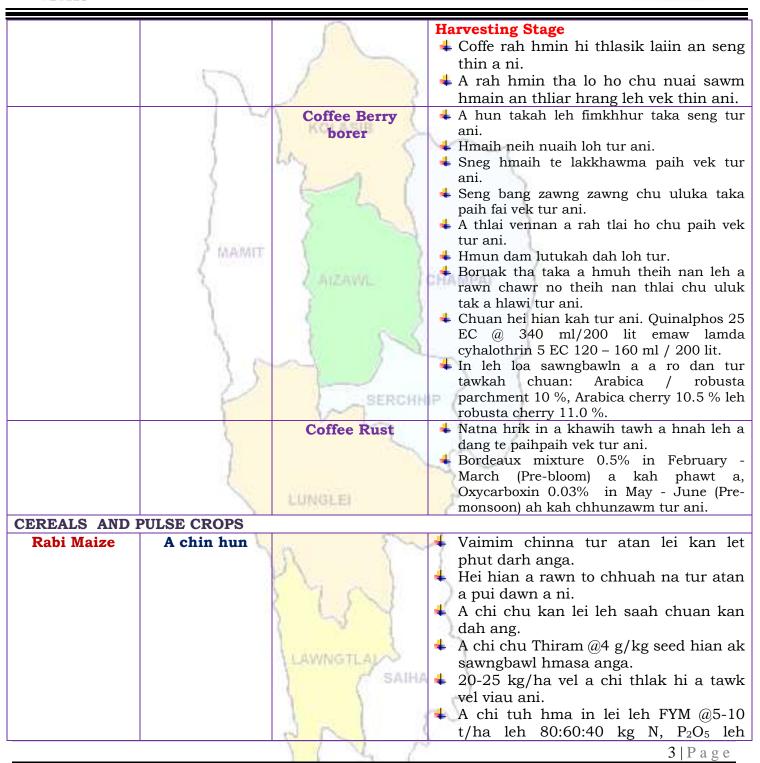


| Main Crop/    | Stage        | Cultural         | Agricultural / Horticultural/ animal   |
|---------------|--------------|------------------|--|
| Animal        |              | practices/ Pest/ | husbandry advisories   |
| /Fisheries    |              | Diseases         |  |
| FRUITS CROPS  |              | I                | I  |
| KHASI         | A kui atanga | 2                | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun   | KOLASIB          | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      |              | ) NULHOID        | velah dahkhawm tur ani.  |
| LIME          |              | La S             | 4 Thlai naupang deuah chuan chawlh   |
|               | 6            | 3 0 1            | kar tin a tui pek thin tur ani.  |
| BANANA        | 2            |                  | 4 Leia tha mamawh tawk a hmuh  |
|               | 1            | 2 5 1            | theihna turin a hmunhma a hnim awm   |
|               |              | 5 24             | te thlawhfai thin tur ani.   |
| STAR FRUIT    | Summer       |                  | 4 A seng hma kar 6 chhung chu tui tha  |
|               | J' MAMIT     | S                | taka pek hian a rah tla tur chelh nan  |
|               |              | LAIZAWA I        | leh a rah than that nan te leh a rah   |
| PLUM AND      |              |                  | keh tur lakah t a veng thei ani.   |
| PEACH         | 1            |                  |  |
|               | 10           | Gummosis, citrus | <b>4</b> Temperture hniam lutuk leh hnawng vang                                      |
|               | 1            | canker, citrus   | hian natna a a tam duh a . Soil bome natna   |
|               | 0.0          | greening and     | laka vennan Bordeaux past hi thing zar leh<br>a trangah te hnawih tur ani.           |
|               | 1)           | Dieback          |  |
|               | F            | Fruit fly RCHH   | + Huan zau takah chuan a par tan tirh leh a  |
|               | 1            | Vita             | 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   | Profile Street   | Nursery stage  |
|               | 1            | -                | + Thlai chi thlak hma in Azospirillum leh  |
|               |              | n m              | Phosphobacterium a enkawl tur ani.   |
|               |              | 1                | A chi hi December – January ah hmun  |
|               | 1            |                  | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |              | 1 1 1            | tlar mumal tak siam in chin tur ani.   |
|               |              | 1 55 4           | + Chuan a chi chu lei tlem te a chhilh a   |
|               |              | A Star St        | buhpawla khuh tur ani.   |
|               |              | LAWNGTLAN        | 4 Nitin tui pek tur ani a, a sat lutuka loh  |
|               |              | SAIHA            | nan niin a chhun loh nan zar hliah tur   |
|               |              | ( SAINA          |  |
|               |              |                  | ↓ Ni 45 hnu velah a tiak thin a,chu chu  |
|               |              | 1 2 1            | bag ah an sawn chhuak leh thin ani.  |
|               |              | 6 N N            |  |
|               |              |                  | 2   P a g e  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| ICAR   |                             |              |  |
|--|-----------------------------|--------------|--|
|  | 2                           | $\sum$       | $K_2O/ha$ 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 CR   | 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>   |
|  |                             | 612 A        | 4   P a g e  |



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



| Onion and            | Numerous      | KOLASIB               | <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 @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>   |
|----------------------|---------------|-----------------------|--|
| Capsicum             | Nursery stage | Poly house            | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha 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  |                       | <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> |
|                      |               | PN 2                  |  |
|                      |               |                       | 5   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| NIMAL HUSBE | ENDARY               |   |   |
|-------------|----------------------|---|---|
| Pig         | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahning in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiahrenga, 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 hleani.</li> </ul> |
|             |                      | 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 atar<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 | LAWNGTLAK   | <ul> <li>Ar te hian hmun thawl nuam tawk chaw tha an mamawh tawk leh tu 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>   |
|             |                      | ANI   |   |



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



|         |                                  | 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> </ul>   |
|---------|----------------------------------|-------------------------|---|
|         | Preventive<br>measures           | 0-3 week                | Ranikhet Disease- an pian atanga ni<br>1-6 ah F1 vaccine pek tur ani a, chuan   |
|         |                                  | 11                      | <ul> <li>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   | <b>Coccidiosis-</b> Amprolium or  |
|         | S. annua                         | T- WCCKS                | coccidiostat  |
|         | J MADVILL                        | 4-5 <sup>th</sup> Weeks | 4 Calcium tonic fortified with B <sub>12</sub>  |
| FISHERY | 30                               | ( ARZAWIL )             | CHAMPAI }   |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.</li> </ul> |
|         |                                  | 001                     |   |
|         |                                  |                         | 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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 1: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 64 | Meteorological Observer      | evansmeteo@gmail.com              |

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist

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: - 783/2018/ Bulletin/English

Period: 11 April - 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

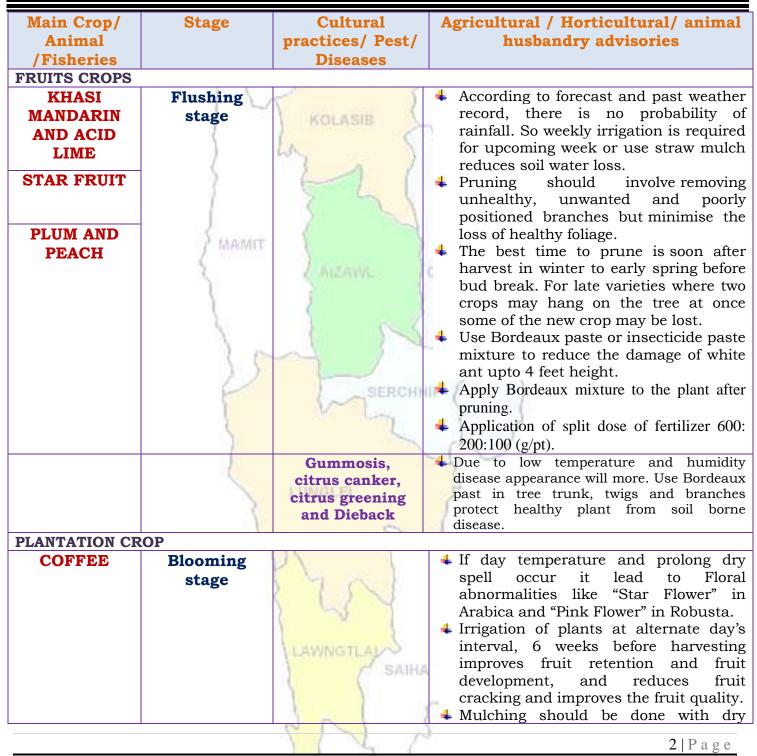
|                       |                                       | 1060                            |                         |                               |                 |
|-----------------------|---------------------------------------|---------------------------------|-------------------------|-------------------------------|-----------------|
| Parameters            | 11.04.2018                            |                                 | 13.04.2018              | 14.04.2018                    | 15.04.2018      |
| Rainfall (mm)         | 3                                     | 8                               | 0                       | 0                             | 0               |
| Max Temp (°C)         | 30                                    | 30                              | 30                      | 30                            | 30              |
| Min Temp (°C)         | 14                                    | 14                              | 14                      | 14                            | 14              |
| Cloud Coverage        | Partially clear                       | Partially clear                 | Partially clear         | Partially clear               | Partially clear |
| Max RH (%)            | 91                                    | 87                              | 80                      | 84                            | 78              |
| Min RH (%)            | 29                                    | 36                              | 29                      | 25                            | 24              |
| Wind Speed (KmpH)     | 3                                     | 2                               | 2                       | 2                             | 3               |
| *Wind Direction       | E                                     | S                               | S-E                     | S-E                           | S-E             |
| Northe                | rly- N, North-                        | Easterly- N-E, Easterly-        | sterly- E, South        | -Easterly- <mark>S-E</mark> , |                 |
| Souther               | ly- <mark>S</mark> , South-           | Westerly- <mark>S-W</mark> , We | sterly-W, North         | -westerly- N-W.               |                 |
| Status of Pre Mor     | nsoon- March                          | 1-31, 2018 (Percent             | of deviation fro        | m normal in pare              | enthesis)       |
| Aizawl- 8.42 mm       | Champh                                | ai- 9.28 mm                     | Saiha- 11.37 m          | im Kolasib                    | - 10.51 mm      |
| (4.20mm)              |                                       | (5.10mm)                        | (3.60m                  |                               | (10.80mm)       |
| Lawngtlai-7.84mm      | Lungle                                | ei-6.35mm                       | Mamit-8.21m             |                               | ip-6.37mm       |
| (3.40mm)              |                                       | (4.10mm)                        | (8.30m                  |                               | (5.20mm)        |
| Weather summary of    | -                                     | Weather for                     | recast valid fr         | om 11 <sup>th</sup> April, 2  | 2018 To         |
| three day             | s                                     |                                 | 15 <sup>th</sup> April, | , 2018.                       |                 |
| Maximum Tem. (°C):2   | 24-27°C                               | There are chanc                 | es of light rain        | fall during the               | next 2 days.    |
| Minimum Tem. (°C):1   | 6-19ºC                                | The maximum a                   | nd minimum              | temperatures fo               | or the next 5   |
| Maximum RH (%):86-    | 95%                                   | days may range                  |                         |                               |                 |
| Minimum RH (%):51-    |                                       | humidity is expe                |                         |                               |                 |
| Wind Direction: Sout  | · · · · · · · · · · · · · · · · · · · | may from 24-36                  |                         | 0                             |                 |
| Cloud cover: Mainly o |                                       | southerly and so                |                         |                               | •               |
| Wind speed: 2-3 km/   | hr                                    | per hour. Partial               | •                       | -                             |                 |
|                       |                                       | -                               | iy cical sky wil        | i prevan during               | , the next live |
| Rainfall: 22.8 mm     |                                       | days.                           |                         |                               |                 |
|                       |                                       |                                 |                         |                               |                 |
|                       |                                       |                                 |                         | rainfall: 11.0                |                 |
| NDVI for Mizoram      |                                       | North East Neglon 24 Ia         | 5 5                     | condition oc                  | curs in all     |
|                       |                                       | ~~~~ E                          | districts of            | Mizoram.                      |                 |
|                       |                                       | - Digital and                   | -                       |                               |                 |
|                       |                                       |                                 | -                       |                               |                 |
|                       |                                       | OUT .                           | -                       |                               |                 |
|                       |                                       |                                 | a Raeth                 |                               |                 |
|                       |                                       | ngan                            |                         |                               |                 |
|                       |                                       | 612                             | 13                      |                               | 1   D           |
|                       |                                       |                                 |                         |                               | 1   P a g e     |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Soil moisture during winter.         * The young fruit plant must be irrigate at weekly interval for bette establishment.         * Folia application of Mepiquat chlorid @ 1000 PPM concentration or 0.759 SSP @ 1.5 gp er 200 lt of water 15 day interval.         Rubber       Vegetative stage         * According to forecast and past weather record, there is no probability or animal. So weekly irrigation is require for upcoming week or use straw mulciple reduces soil water loss.         * Farmers can go for tapping upto las week of January.         * Make fire line around the field to saw from fire.         Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft between 4 plants. Store dried leaves i the pit and after 4 months it can use a manure.         Oil plam       Vegetative/<br>Harvesting stage         Viole infigution of dry leaf mulch or paddy hus to a thickness of about 8 cm. in the basi keeps down the weed growth and decrease the number of irrigation of split dose of fertilizer 600 200:100 (g/pt).         * Application of split dose of fertilizer 600 200:100 (g/pt).         * Apply Bordeaux mixture to the plant afte priving.         * Fruits are harvested when they attain fu size, develop attractive colour with optimur sugar and acid blend.         CEREALS AND PULSE CROPS         Maize (Jhum)         Sowing stage         * Remove all weed plant from th selected place.         * Remove all weed plant from th selected place.  | ICAR   |              |                 |  |
|---|--------|--------------|-----------------|--|
| Oil plam       Vegetative/<br>Harvesting<br>stage       Image: Free Stage       Image: Stage: Stage: Stage: Stage: Stage       Image: Stage: Sta |        | 7            | KOLASIB         | <ul> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride<br/>(a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>  |
| Harvesting<br>stage       * Application of dry leaf mulch or paddy hus<br>to a thickness of about 8 cm. in the basi<br>keeps down the weed growth and decrease<br>the number of irrigations and also improve<br>fruit quality.         * Application of split dose of fertilizer 600<br>200:100 (g/pt).         * Apply Bordeaux mixture to the plant after<br>pruning.         * Fruits are harvested when they attain fui<br>size, develop attractive colour with optimur<br>sugar and acid blend.         CEREALS AND PULSE CROPS         Maize<br>(Jhum)       Sowing stage         • Remove all weed plant from th<br>selected place.         • Keep the plant, leaves and wood fo<br>dry.   | Rubber | stage        | AIZAWL          | <ul> <li>record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as</li> </ul>   |
| Maize<br>(Jhum)       Sowing stage       Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.  |        | Harvesting   |                 | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum</li> </ul> |
| (Jhum) selected place.<br>Keep the plant, leaves and wood fo<br>dry.  |        |              | L'ENTRO L'ENTRO | Remove all weed plant from the   |
|   |        | Sowing stage | SAIHA           | selected place.<br>Keep the plant, leaves and wood for   |
| 1 Page  |        |              | PN A            | 3   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                 | $\sum_{i=1}^{n}$           | KOLASIB                          | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---------------------------------|----------------------------|----------------------------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CRO | Sowing stage               | AIZAWL                           | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| Ginger and<br>turmeric          | Sowing stage               |                                  | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul>  |
| Onion                           | Bulb<br>formation<br>stage | Poly house<br>LAWNGTLAL<br>SAIHA | <ul> <li>Provide irrigation every alternate day<br/>due to non availability of rain.</li> <li>Intercultural operations should be</li> </ul>   |
|                                 |                            | 512 M                            | 4   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                     | A   | <ul> <li>applied 30-40 days after transplantin</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidi</li> </ul>  |
|-------------------------------------|---|--|
| 5                                   | 23  | <ul> <li>Low temperature and high human<br/>influence the population of onion trips</li> <li>Apply any systemic insecticide 1<br/>ml/lt of water.</li> </ul>   |
| Flowering to fruiting stage         | Poly house  | <ul> <li>Intercultural operations should be dor<br/>regularly to keep the crop free fro<br/>weeds and aeration of the root system</li> <li>Harvest all mature fruits.</li> </ul>   |
|                                     | 24  | <ul> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide<br/>reduce damage of chilli thrips.</li> </ul>  |
| Fruiting to<br>flowering<br>stage   | AIZAWL  | According to forecast and past weath<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.  |
| 25                                  |   | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will make in dry weather. Apply any systematical systematical</li></ul> |
| }                                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>   |
| Vegetative to<br>flowering<br>stage |   | <ul> <li>According to forecast and past weath record, there is no probability rainfall. So weekly twice irrigation required for upcoming week or u straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> </ul>   |
|                                     | NJ V  | <ul> <li>Apply split dose of nitrogenor</li> <li>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|                                     | Transition in the   | In large gardens apply carbaryl 0.2 per ce<br>or malathion 0.15 per cent suspensi-<br>containing sugar or jeggery at 10 g/l<br>fortnightly intervals at flowering and from   |
|                                     | fruiting stage<br>Fruiting to<br>flowering<br>stage<br>Vegetative to<br>flowering | fruiting stage       Image: Constraint of flowering stage         Fruiting to flowering stage       Image: Constraint of flowering stage         Vegetative to flowering       Image: Constraint of flowering  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Potato       Harvesting<br>stage       4       If the leaves and plant became dry it<br>means plant ready for harvesting.         • Open the furrow with the help of<br>spade, harvest all mature tubers.       • Discard all mother tubers from<br>harvested potato tubers.         • Down as Sowing stage       • Discard all mother tubers and sowing.         • Plough the field properly, at least 2-3<br>times.         • Mix fertilizer with FYM 50:60:60Kg<br>/ha.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Provide fertilizer @ 120: 60: 60 Kg/ha         • Mix fertilizer @ 120: 60: 60 Kg/ha       • Animals must keep in dry place or<br>kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.         • Mix lettilizer       • Provide fertilizer weather conditions of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)         • Provide in grast swine fever (Vaccines<br>available in State Veterinary Departs)         • Culling of positive pigs or piglets.   |             |              |                         |  |
|---|-------------|--------------|-------------------------|--|
| stage       means plant ready for harvesting.         Open the furrow with the help of spade, harvest all mature tubers.       Discard all mother tubers from harvested potato tubers.         Ecowpea       Sowing stage       Keep 25% seed for next season sowing.         Cowpea       Sowing stage       Plough the field properly, at least 2-3 times.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2-3 seed per whole.       Spade 45 X 45 cm spacing.         Sow 2-3 seed provide one or two irrigation.       Plough the field with the help of spade.         Sow 2-3 seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages       All stages         Prig       All stages       Froncine         Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Syndrome (PRRS).       1. Culling of positive pigs or piglets.  | Potato      | Harvesting   |                         | 4 If the leaves and plant became dry i             |
| Cowpea       Sowing stage         Cowpea       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         MIMAL HUSBENDARY       Pig         All stages       All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals       Servide acquate potable water.         In injection at 6 months of age and 2nd injection at 12 months of   |             |              |                         | means plant ready for harvesting.                  |
| Sowing stage       spade, harvest all mature tubers.         Cowpea       Sowing stage         Cowpea       Sowing stage         Plough the field property, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.         Sowing stage         Okra         Sowing stage         Plough the field property, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.         Sowing stage         Plough the field with the help of spade.         Spacing should be 30 X 20 cm.         Plough the field with the help of spade.         Swor 2-3 seed per whole.         Spacing should be 30 X 20 cm.         Plough the field with the help of spade.         Swor 2-3 seed per whole.         Swor 2-4 serd 45 X 45 cm spacing.  |             |              |                         | ↓ Open the furrow with the help o                  |
| Cowpea       Sowing stage       Field property, at least 2-3 times.         Cowpea       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Plough the field property, at least 2-3 times.       Mix fertilizer with FYM 50:60:60 Kg /ha.         Sowing stage       Field with the help of spade.         Sowing seed per value.       Spacing should be 30 X 20 cm.         Plough the field with the help of spade.       Sow 2 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image:       All stages         Provide adequate potable water.       Image: the present weather condition under vet supervision against FMD.         Reproductive Respiratory Syndrome (PRRS).       Image: the present weather ver (Vaccinea available in State Veterinary Departs)         1. Culling of positive pigs or piglets.       Sourcinate against piglets.   |             |              |                         |  |
| Animals       Animals       Harvested potato tubers.         Cowpea       Sowing stage       Keep 7 - 10 days for drying or reduce the moisture level in shed dry.         Keep 25% seed for next season sowing.       Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Perovide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         Prig       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 # injection at 12 months of age and 2 nigection at 12 months of age followed by annual vaccination under ve supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 2.1          | 1                       |  |
| Cowpea       Sowing stage       # Keep 7 -10 days for drying or reduce the moisture level in shed dry.         Cowpea       Sowing stage       # Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       # Plough the field with the help of spade.         Sowing stage       # Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       # Borre sowing seed provide one or two irrigation.         Prig       All stages         Prig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         In injection at 6 months of age and 2n injection at 12 months of age and 2n injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Recluce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vacinate against swine fever (Vaccinae available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              | 5 )                     |  |
| Cowpea       Sowing stage       + Keep 25% seed for next season sowing.         Cowpea       Sowing stage       + Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Sowing stage       + Plough the field with the help of spade.         Okra       Sowing stage       + Plough the field with the help of spade.         NIMAL HUSBENDARY       - Forvide fertilizer @ 120: 60: 60 Kg/ha         Pig       All stages       + Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Provide adequate potable water.       In present weather conditions vaccinate against swine fever (Vaccinces available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              | KOLASIE                 | -  |
| Cowpea       Sowing stage       + Keep 25% seed for next season sowing.         Plough the field properly, at least 2-3 times.       + Mix fertilizer with FYM 50:60:60Kg /ha.         Okra       Sowing stage       + Spacing should be 30 X 20 cm.         Okra       Sowing stage       + Plough the field with the help of spade.         Sow 2-3 seed per whole.       - Sow 2-3 seed per whole.         Sowing stage       + Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       + Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Intel B       - Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Provide adequate potable water.       - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.       - Culling of positive pigs or piglets.  |             | 6            | 0                       | 1 1 1 0 0  |
| Cowpea       Sowing stage       + Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       Plough the field with the help of spade.         Okra       Sowing stage       + Plough the field with the help of spade.         Mix fertilizer with FYM 50:60:60 Kg /ha.       + Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       + Plough the field with the help of spade.         ANIMAL HUSBENDARY       + Before sowing seed provide one or two irrigation.         Pig       All stages       + Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | )            | WA D                    |  |
| Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 12 months of age and 2nd injection at 12 months and 30 moth age and 30 moth age and 30 moth age and 30   | <b>C</b>    | Coming store | 1 1 1                   |  |
| Okra       Sowing stage       MAMIT       Mix fertilizer with FYM 50:60:60Kg /ha.         Okra       Sowing stage       Spacing should be 30 X 20 cm.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Fig       Fig   | Cowpea      | Sowing stage |                         |  |
| Okra       Sowing stage       /ha.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Prig       All stages       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         Prig       All stages       Frovide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provide to young animals.       I at injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 6            | 2 5                     |  |
| Okra       Sowing stage       Sow 2-3 seed per whole.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 - 3 seed per whole.       Spacing should be 30 X 20 cm.         Plough the field with the help of spade.       Sow 2 - 3 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provide to young animals.         All stages       Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to yo  |             |              | 2                       |  |
| Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Prig       All stages       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image: strain the st   |             | Same         |                         |  |
| Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages         Pig       All stages         Image: Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Image: Sow 2 seed 45 X 45 cm spacing.         Image: Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image: Sow 2 seed 45 X 45 cm spacing.         Proj (blowed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         Image: Syndrome (PRRS).         Porcine Reproductive Respiratory Syndrome (PRRS).         1. Culling of positive pigs or piglets.  |             | J. WADAT     | X 7                     |  |
| <ul> <li>ANIMAL HUSBENDARY</li> <li>Pig</li> <li>All stages</li> <li>All stages</li> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   |             | 5            | Laizava }               |  |
| <ul> <li>ANIMAL HUSBENDARY</li> <li>Pig</li> <li>All stages</li> <li>All stages</li> <li>All stages</li> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   | Okra        | Sowing stage | and the second          |  |
| ANIMAL HUSBENDARY Pig All stages All stages All stages Pig  |             | 1            | )                       |  |
| ANIMAL HUSBENDARY         Pig       All stages         All stages         Image: State of the stage of the s  |             | 1.5          |                         |  |
| Pig       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              |                         |  |
| Pig       All stages       Animals       must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.       1st injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.   |             | ) 6          |                         | + Provide fertilizer @ 120: 60: 60 Kg/ha           |
| kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.<br>1 <sup>st</sup> injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.  | ANIMAL HUSB | ENDARY       |                         |  |
| kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.<br>1 <sup>st</sup> injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.  | Pig         | All stages   | GERCHN                  | 4 Animals must keep in dry place o                 |
| animals.<br>1st injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.<br>1. Culling of positive pigs or piglets.   | -           | S            | 1 And a second          | kept in alleviated area and dry bedding            |
| animals.<br>1st injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.<br>1. Culling of positive pigs or piglets.   |             | 2            |                         | (straw) to be provided to youn                     |
| 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              |                         |  |
| 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 1            |                         | ↓ 1 <sup>st</sup> injection at 6 months of age and |
| Image: Specific state s |             | 1            |                         |  |
| <ul> <li>vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>  |             |              | 1 LINUCLE FIL           |  |
| <ul> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>  |             | 2            | (10.07) (3.000 (10.07)) |  |
| <ul> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>1. Culling of positive pigs or piglets.</li> </ul>  |             |              |                         |  |
| <ul> <li>Porcine<br/>Reproductive<br/>Respiratory<br/>Syndrome (PRRS).</li> <li>In present weather conditions<br/>vaccinate against swine fever (Vaccines<br/>available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   |             | 5            | m 2~                    | _  |
| Vaccinate against swine fever (Vaccines available in State Veterinary Departs)         Porcine         Reproductive         Respiratory         Syndrome (PRRS).  |             |              | 131                     |  |
| Available in State Veterinary Departs)         Porcine         Reproductive         Respiratory         Syndrome (PRRS).  |             |              | Plant                   | -  |
| Porcine<br>Reproductive<br>Respiratory<br>Syndrome (PRRS).       1. Culling of positive pigs or piglets.  |             |              | 7 61                    |  |
| Reproductive<br>Respiratory<br>Syndrome (PRRS).   |             | -            | Porcine                 |  |
| Respiratory<br>Syndrome (PRRS).   |             |              |                         | 1. Cuming of positive pige of pigiets.             |
| Syndrome (PRRS).  |             |              |                         |  |
|   |             |              |                         |  |
| 6 Page  |             |              | Syndrome (r KKS).       | ų  |
| 6 Page  |             |              |                         | ÷  |
| 6 Page  |             |              |                         | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~             |
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|   |             |              | 1 N N                   | 6   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

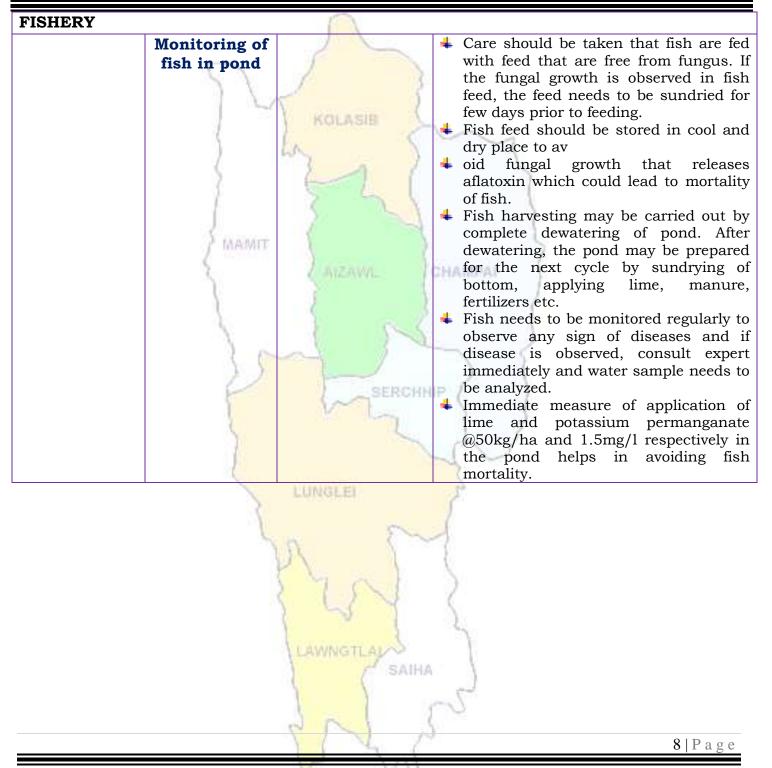


| Cattle  | All age group |   | 4 In present weather conditions, special                   |
|---------|---------------|---|--|
| Cutte   |               |   | care should be taken against attack of                     |
|         |               |   | maggots in the wounds of animals.                          |
|         |               |   | Application of turpentine oil in the                       |
|         | 2.1           | 1 5   | wounds followed by application of                          |
|         |               | 5   | antibiotics for five days is advised.                      |
|         |               | KOLASIB   | <ul> <li>Provide UMB/Molases if possible in the</li> </ul> |
|         | 1             | 0   | feed   |
|         | )             | an J  | Provide 10-30 ml of vitamin B-Complex                      |
|         | 5             | 1 1   | in feed  |
|         | 6             | the second second   | 4 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd       |
|         | E.            |   | injection after 6 months of 1 <sup>st</sup> injection      |
|         |               |   | followed by annual vaccination under                       |
|         | MAMIT         | 1   | vet supervision.   |
|         | 2 martines    | S   | Separate sick animals.                                     |
|         | 30            | ATZAWIL   | 4 The animal should be washed with                         |
|         | 13            | 21  | lukewarm water added with little                           |
|         |               | 6 5   | potash (KMnO4) or neem leaves.                             |
|         |               | 1 5 6   | Long hair near the   |
|         | 13 - 2        |   | udder/stomach/back legs should be                          |
|         | 1 S a 🔇       |   | teamed short.  |
| Poultry | All age group | a series of the | Provide preventive dose of anti-coccidial                  |
|         | 8- 8P         | SERCHN  | drugs to poultry.  |
|         | 1             | Nº Long   | + Proper ventilation of shed.                              |
|         | 5             |   | + Provide glucose/electral along with                      |
|         | 10            |   | vitamin supplements (@5- 6ml/100                           |
|         | 1             |   | birds) with adequate potable water                         |
|         |               | LUNGLEI   | 4 Avoid overcrowding.                                      |
|         | 2             |   | <b>4</b> Provide broad-spectrum antihelminthic             |
|         | 1             | -   | drugs under vet supervision and                            |
|         | 5             | ~ 5~  | recommended doses.   |
|         |               | 1   | <b>4</b> Vaccination as per the schedule with              |
|         |               | The set V   | proper consultation with vet.                              |
|         |               | 2 1 5 5   | → Day old chick: HVT Marek disease                         |
|         |               | 1 55 7  | vaccine, 4-7 days:¬ F/Lasota, 14-18                        |
|         |               |   | days: Intermediate plus/IBD                                |
|         |               | LAWNGTLAL   | vaccine, 35 days: F/Lasota, 6-7                            |
|         |               | SAIHA   | weeks: Chicken embryo adopted                              |
|         |               | ( SAINA   | fowl pox vaccine and 56-70 days:                           |
|         |               |   | RD R-2B strain.  |
|         |               |   | 4 Remove wet litter.                                       |
|         |               | C N N   |  |
|         |               |   | 7   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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

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



#### **Expert committee members:**

| Dr. S.B. Singh          | •     | Joint Director               | basantasinghsoibam@rediffmail.com  |
|-------------------------|-------|------------------------------|------------------------------------|
| Di. 5.D. Singh          | •     |                              | busuncusing insolvening cumman.com |
| Dr. Saurav Saha         | 1     | Scientist (Agril. Physics)   | sauravs.saha@gmail.com             |
| Dr. T. Boopathi         | :     | Scientist (Agril Entomology) | boopathiars@gmail.com              |
| Dr. A. Ratankumar Singh | :     | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com          |
| Dr. Lungmuana           | :     | Scientist (Soil Fertility)   | lmsingson@gmail.com                |
| Mr. P.L. Lalrinsanga    | 1:    | Scientist (Aquaculture)      | viensky2@gmail.com                 |
| Dr. Dr. V. Dayal        | 5:    | Scientist (Horticulture)     | Vishambhai5009@gmail.com           |
| Dr. Samuel Lalliansanga | :     | Head & Sr. Scientist         | samuelpachuau10@gmail.com          |
| Mr. Samik Chowdhury     | :     | Technical Officer            | samikchowdhury33@gmail.com         |
| Mr. Evans Syiem         | :     | Meteorological Observer      | evansmeteo@gmail.com               |
|                         | - 0.0 | AV RALL E                    |                                    |

#### **Collaborating Department:**

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



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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: - | 783/2018/ | Bulletin/Mizo |  |
|----------------|-----------|---------------|--|
|                |           |               |  |

Period: 11 April – 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|   |   | $\sim R$                        | 4.4  |  |   |
|---|---|---------------------------------|--|--|---|
| Parameters  | 11.04.2018                                  |                                 | 13.04.2018   | 14.04.2018   | 15.04.2018  |
| Rainfall (mm)   | 0   | 14                              | 12   | 7  | 0   |
| Max Temp (°C)   | 30  | 30                              | 30   | 29   | 29  |
| Min Temp (°C)   | 13  | 13                              | 13   | 13   | 14  |
| Cloud Coverage  | Mainly cloudy                               | Mainly cloudy                   | Mainly cloudy  | Mainly cloudy  | Mainly cloudy   |
| Max RH (%)  | 91  | 98                              | 89   | 99   | 78  |
| Min RH (%)  | 40  | 33                              | 61   | 34   | 33  |
| Wind Speed (KmpH)   | 2   | 2                               | 2  | 2  | 2   |
| *Wind Direction   | E   | E                               | E  | N-E  | N   |
| Northe  | rly- N, North-                              | Easterly- N-E, East             | sterly- E, South   | -Easterly- <mark>S-E</mark> ,  |   |
|   |   | Westerly- <mark>S-W</mark> , We |  |  |   |
|   |   | 1-31, 2018 (Percent             |  |  |   |
| Aizawl- 8.42 mm   | Champh                                      |                                 | Saiha- 11.37 m   |  | 10.51 mm  |
| (4.20mm)  |   | (5.10mm)                        | (3.60m   |  | (10.80mm)   |
| Lawngtlai-7.84mm  | Lungle                                      | ei-6.35mm                       | Mamit-8.21m  |  | <b>ip-6.37mm</b>  |
| (3.40mm)  |   | (4.10mm)                        | (8.30m   |  | (5.20mm)  |
| Weather summary of  | · · · · · · · · · · · · · · · · · · ·       | 11 <sup>th</sup> April – 1      | .5 <sup>th</sup> April, 20   | 18 chhunga   | sik leh sa  |
| three day   | S   |                                 | dinhmun tu   |  |   |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):86-<br>Minimum RH (%):51-0<br>Wind Direction: South<br>Cloud cover: Mainly of<br>Wind speed: 2-3 km/1<br>Rainfall: 22.8 mm | 6-19°C<br>95%<br>68%<br>heasterly<br>cloudy |                                 | Khua a lum l<br>.4°C ni tura be<br>iam lai berin 2<br>ah 2-3 km v<br>rin a ni. A tla<br>g tak hmuh bei | ai berin 30ºC a<br>isei a ni. RH sa<br>24-36% ni tur a<br>7ela chakin ch<br>ngpuiin tun ni | a ni ang a. A<br>n lai berin of<br>rin niin. Thli<br>haklam awi<br>nga chhung |
| NDVI for Mizoram  |   | North East Region 29 for        | Moderately<br>conditions   | wet mildly dr  | y/mildly wet  |
|   |   | 111                             | 1  |  | 1   Page  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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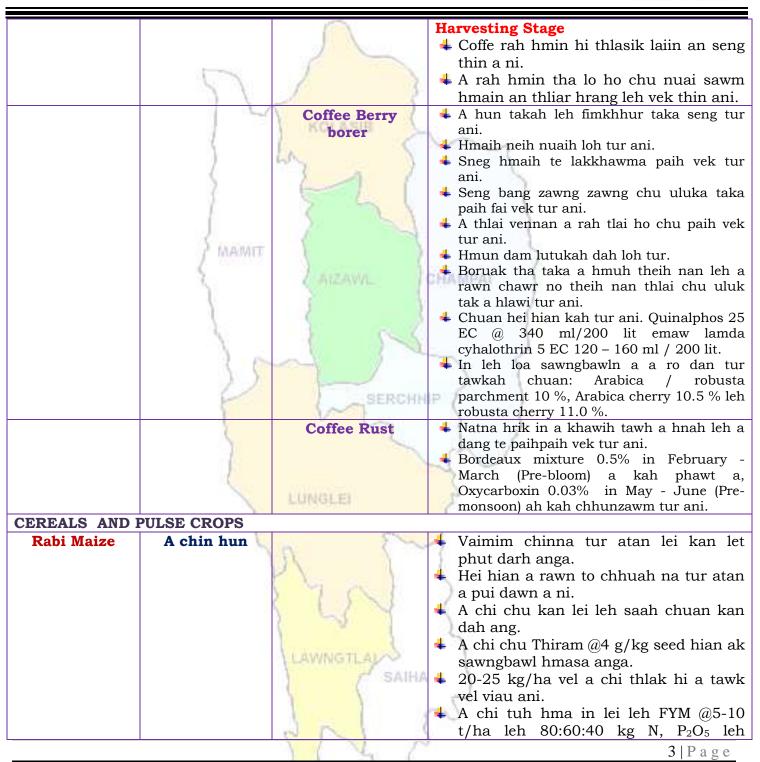


| Main Crop/                          | Stage         | Cultural         | Agricultural / Horticultural/ animal   |  |  |
|-------------------------------------|---------------|------------------|--|--|--|
| Animal                              |               | practices/ Pest/ | husbandry advisories   |  |  |
| /Fisheries                          |               | Diseases         |  |  |  |
| FRUITS CROPS                        |               |                  |  |  |  |
| KHASI                               | A kui atanga  | 2                | 4 Thlasik laia thlai bul khoro lutuk tur   |  |  |
| MANDARIN                            | a seng hun    | KOLASIE          | vennan chuan hnim hnah hring tlai bul  |  |  |
| AND ACID                            |               | 1 HOLMOID >      | velah dahkhawm tur ani.  |  |  |
| LIME                                | )             | La N             | 👍 Thlai naupang deuah chuan chawlh   |  |  |
|                                     | (             | 3 4 1            | kar tin a tui pek thin tur ani.  |  |  |
| BANANA                              | 2             |                  | 4 Leia tha mamawh tawk a hmuh  |  |  |
|                                     | 1             | 2 5              | theihna turin a hmunhma a hnim awm   |  |  |
|                                     |               |                  | te thlawhfai thin tur ani.   |  |  |
| STAR FRUIT                          | AMAMIT        |                  | 4 A seng hma kar 6 chhung chu tui tha  |  |  |
|                                     | f interavit k | 5 6              | taka pek hian a rah tla tur chelh nan  |  |  |
|                                     | 3.0           | Z ARZAWIL I      | leh a rah than that nan te leh a rah   |  |  |
| PLUM AND                            |               |                  | keh tur lakah t a veng thei ani.   |  |  |
| PEACH                               | 1             |                  |  |  |  |
|                                     | 10            | Gummosis, citrus | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna |  |  |
|                                     | 1             | canker, citrus   | laka vennan Bordeaux past hi thing zar leh   |  |  |
|                                     |               | greening and     | a trangah te hnawih tur ani.   |  |  |
|                                     | 11            | Dieback          |  |  |  |
|                                     |               | Fruit fly RCHH   | Huan zau takah chuan a par tan tirh leh a<br>rah tan tirin chawlhkar hnih chhung chu |  |  |
|                                     | 1             | V                | heng te hian enkawl tur ani: carbaryl 0.2  |  |  |
|                                     | 5             |                  | percent emaw malathion 0.15 percent  |  |  |
|                                     | 10            |                  | suspension containing sugar or jeggery at  |  |  |
|                                     | 100 C         |                  | 10 g/l.  |  |  |
| PLANTATION CR                       |               |                  |  |  |  |
| COFFEE                              | All stages    | 2010/00/2010/1   | Nursery stage  |  |  |
|                                     |               | 1994 C           | + Thlai chi thlak hma in Azospirillum leh  |  |  |
|                                     | 5             | n 7~             | Phosphobacterium a enkawl tur ani.   |  |  |
|                                     |               | 1                | 🗍 A chi hi December – January ah hmun  |  |  |
|                                     |               |                  | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |  |  |
|                                     |               | 2 1 5 5          | tlar mumal tak siam in chin tur ani.   |  |  |
|                                     |               | 1 55 7           | + Chuan a chi chu lei tlem te a chhilh a   |  |  |
|                                     |               |                  | buhpawla khuh tur ani.   |  |  |
|                                     |               | LAWNGTLAN        | 4 Nitin tui pek tur ani a, a sat lutuka loh  |  |  |
|                                     |               | SAIHA            | nan niin a chhun loh nan zar hliah tur   |  |  |
|                                     |               | ( SAINA          | ani.   |  |  |
|                                     |               |                  | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu                                       |  |  |
| bag ah an sawn chhuak leh thin ani. |               |                  |  |  |  |
|                                     |               | 6151 A           |  |  |  |
|                                     |               | 1 4 6            | 2   P a g e  |  |  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| ICAR   |                             |                  |  |
|--|-----------------------------|------------------|--|
|  | 2                           | $\sum$           | $K_2O/ha$ 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<br>SERCHH | <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       | LAWNGTLAN        | <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</li> </ul>   |
|  |                             | SAIHA            | <ul> <li>hnim ring vawm khawm hi tui pek<br/>zawhah dah tur ani.</li> <li>Zikhlum lam chi ah chuan sik leh<br/>sa vangin a hnah ah thil dum rawn</li> </ul>  |



ICAR RESEARCH COMPLEX FOR NEH REGION



| Onion and<br>capsicumNursery stagePoly houseber ani.Onion and<br>capsicumNursery stagePoly house4 than a that theih nan nikhat danah<br>tui pek thin tur ani.Onion and<br>capsicumNursery stagePoly house4 than a that theih nan nikhat danah<br>tui pek thin tur ani.Poly house4 than a that theih nan nikhat danah<br>tui pek thin tur ani.5 thin tur ani.Phytopthora<br>blightPhytopthora<br>blight4 than a that theih nan thiram 3g/kg seed<br>emaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/kg seed hi a tha hle aniFrench beanSowing stage4 than a that theih nan ti pek hnim to loh<br>na tur in a kung bulah lei vur chhoh zel<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stage4 than a that theih nan ti pek hnim to loh<br>na tur in a kung bulah lei vur chhoh zel<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tui pek thin tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carrot and<br>radishSowing stage4 than a that theih nan nikhat danah<br>tur ani.Carr |             |              |            |  |
|--|-------------|--------------|------------|--|
| capsicumtui pek tin tur ani.capsicumtui pek tin tur ani.tui pek tin tur ani.Thiai bul yawn hnawn nana thlai bula<br>hnim ring yawm khawm hi tui pek<br>zawhah dah tur ani.Thiai bul yawn hnawn nana thlai bula<br>hnim ring yawm khawm hi tui pek<br>zawhah dah tur ani.Phytopthora<br>blightA 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 beanSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radishSowing stageCarrot and<br>radishSowing stageCarrot and<br>radishSowing stageLarot and<br>radish<  |             | 5            | KOLASIB    | <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<br/>tur ani.</li> </ul>  |
| blightemaw Trichoderma viride 4g+ metalaxyl 4g<br>(Apron)/ kg seed hi a tha hle aniFrench beanSowing stage4 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 stage4 Tui pek a hnihnah hringa khuh tur ani<br>a. than a that theih nan leh hnim to loh<br>na turin a kung bulah lei vur chhoh zel<br>  |             |              | Poly house | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha</li> </ul>                                  |
| Carrot and<br>radishSowing stageA 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.Tui pek hnuah thlai bul vawn hnawn<br>na tur siam tur ani.Tui pek hnuah thlai bul vawn hnawn<br>na tur siam tur ani.Zikhlum lam 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.Thlai hna lam chi leh zikhlum lam<br>chi reng reng enkawl nan<br>Mancozeb @ 2gm ah tui leter 1<br>pawlha kah tur ani.  |             | 35           |            | <ul> <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</li> </ul>  |
| radish       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 nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.  | French bean | Sowing stage |            | A than duna theih nan leh hnim to loh<br>na turin a kung bulah lei vur chhoh zel<br>tur ani.   |
|  |             | Sowing stage | LAWNGTLAN  | <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> |
|  |             |              | N 12 12    | )  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| ANIMAL HUSBE | NDARY                |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahning 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> </ul> |
|              | AMAINT               | 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<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.  |
|              | 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 | LAWNGTLAK   | <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>   |
|              |                      | N N N   |   |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



|         | 2                                | $\sum$                  | <ul> <li>Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>  |
|---------|----------------------------------|-------------------------|--|
|         | Preventive                       | 0-3 rd week             | <b>4 Ranikhet</b> Disease- an pian atanga 1  |
|         | measures                         | Les J                   | 1-6 ah F1 vaccine pek tur ani a, chua a puitlingh chuan R <sub>2</sub> B vaccine pek tu  |
|         | 5                                | 211                     | ani.   |
|         | 5                                | 5 6                     | + B complex with antibodies  |
|         |                                  | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis</b> - Amprolium o   |
|         | Summer                           | 1                       | coccidiostat   |
|         | MAINT                            | 4-5 <sup>th</sup> Weeks | 4 Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | 3                                | AIZAWIL                 | CHAMPAI }  |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai l<br/>chauh pek thin tur ani. Sangha chaw<br/>lo hmuar anih chuan pek hma in ni s<br/>a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi<br/>hmun ro leh uap lutuk lo ah dahtha<br/>tur ani a, hmuar atang a tur lo insear<br/>thin, aflatoxin avang a sangha thi la<br/>atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi<br/>hian a kumleh a sangha khawinan a d<br/>buatsaih a ti awlsam a, dil mawm<br/>phoro, chinai phul, leitha hman leh tu<br/>dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him en<br/>tih enfiah fo a tha a, natna hmuh ani<br/>chuan mithiam te rawn vat a, diltu<br/>enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le<br/>tuisen @1.5mg/l diltui a hman hia<br/>sangha natna avang a thi tur la<br/>atangin a veng thei.</li> </ul> |
|         |                                  | P N n                   | 710  |
|         |                                  |                         | 7   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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :   | Joint Director                              | <u>basantasinghsoibam@rediffmail.com</u> |
|-------------------------|-----|---|--|
| Dr. Saurav Saha         | 1:  | Scientist (Agril. Physics)                  | sauravs.saha@gmail.com                   |
| Dr. T. Boopathi         | :   | Scient <mark>ist (Agril Entomol</mark> ogy) | boopathiars@gmail.com                    |
| Dr. A. Ratankumar Singh | :   | Scientist (Plant Pathology)                 | ratanplantpatho@gmail.com                |
| Dr. Lungmuana           | :   | Scientist (Soil Fertility)                  | lmsingson@gmail.com                      |
| Mr. P.L. Lalrinsanga    | 1:  | Scientist (Aquaculture)                     | viensky2@gmail.com                       |
| Dr. Dr. V. Dayal        | 1:  | Scientist (Horticulture)                    | Vishambhai5009@gmail.com                 |
| Dr. Samuel Lalliansanga | :   | Head & Sr. Scientist                        | samuelpachuau10@gmail.com                |
| Mr. Samik Chowdhury     | :   | Technical Officer                           | samikchowdhury33@gmail.com               |
| Mr. Evans Syiem         | (A) | Meteorological Observer                     | evansmeteo@gmail.com                     |

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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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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#### **District:** Lunglei

Bulletin No: - 783/2018/ Bulletin/English

**Period:** 11 April – 15 April, 2018

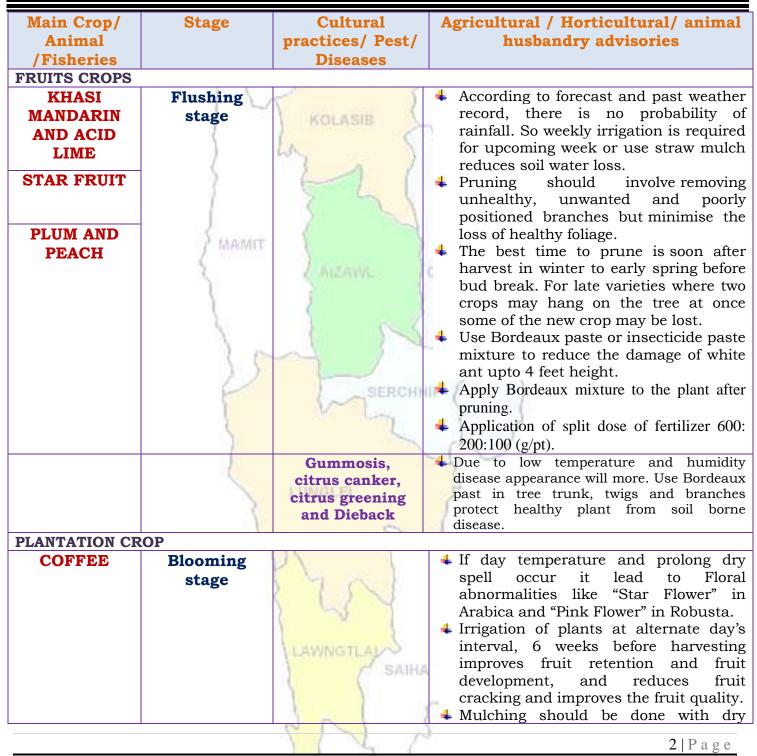
#### Date of issue: 10<sup>th</sup> April, 2018 Parameters 11.04.2018 12.04.2018 13.04.2018 14.04.2018 15.04.2018 Rainfall (mm) 9 16 0 0 0 Max Temp (°C) 32 32 32 32 32 Min Temp (°C) 18 18 18 18 18 **Cloud Coverage** Mainly clear Mainly clear Mainly clear Partially clear Partially clear Max RH (%) 96 92 82 84 79 Min RH (%) 37 48 33 30 28 Wind Speed (KmpH) 3 2 4 4 4 **\*Wind Direction** E Е N-E Е E Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W. Status of Pre Monsoon- March 1-31, 2018 (Percent of deviation from normal in parenthesis) Saiha- 11.37 mm Aizawl- 8.42 mm Champhai- 9.28 mm Kolasib- 10.51 mm (4.20 mm)(5.10 mm)(3.60 mm)(10.80 mm)Lawngtlai-7.84mm Lunglei-6.35mm Mamit-8.21mm Serchhip-6.37mm (3.40 mm)(4.10mm)(8.30mm)(5.20mm)Weather forecast valid from 11<sup>th</sup>April, 2018 To Weather summary of the past three days 15<sup>th</sup>April, 2018. There are chances of moderate to light rainfall during the Maximum Tem. (°C):23-25°C Minimum Tem. (°C):14-16°C next 2 days. The maximum and minimum temperatures for Maximum RH (%):78-91% the next 5 days may range for 32°C and 18°C. Maximum Minimum RH (%):44-59% relative humidity is expected in the range of 79-96% and Wind Direction: Southeasterly minimum may from 28-48%. Wind direction would be **Cloud cover: Mainly cloudy** easterly to northeasterly and easterly with the wind speed Wind speed: 2-3 km/hr of 3-4 km per hour. Partially clear sky will prevail during the next five days. Rainfall: 25.3 mm Weekly cumulative rainfall: 25.0 mm Mildly dry condition occurs in all **NDVI for Mizoram** districts of Mizoram.

Phone: +91 3837 220041. Fax: +91 3837 220560. E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Rubber         | Vegetative<br>stage                | KOLASIB     | <ul> <li>grasses near the tree base to conserve soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride<br/>(a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch</li> </ul>                    |
|----------------|------------------------------------|-------------|--|
| Rubber         | stage                              | 54          | record, there is no probability of rainfall. So weekly irrigation is required  |
|                | 35                                 | AIZAWL      | <ul> <li>reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>  |
|                | Vegetative/<br>Harvesting<br>stage |             | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul> |
| CEREALS AND PU | Sowing stage                       | Franko Irak | Remove all weed plant from the   |
| (Jhum)         | Soming stage                       | SAIHA       | <ul> <li>Keep the plant, leaves and wood for dry.</li> </ul>   |
|                |                                    | PN A        | 3   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                 | $\sum_{i=1}^{n}$           | KOLASIB    | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---------------------------------|----------------------------|------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CRO | Sowing stage               | AIZAWL     | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| Ginger and<br>turmeric          | Sowing stage               |            | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul>  |
| Onion                           | Bulb<br>formation<br>stage | Poly house | <ul> <li>Provide irrigation every alternate day<br/>due to non availability of rain.</li> <li>Interpultural experisions should be</li> </ul>  |
|                                 |                            | SIZ A      | 4   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                     | A   | <ul> <li>applied 30-40 days after transplantin</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidi</li> </ul>  |
|-------------------------------------|---|--|
| 5                                   | 23  | <ul> <li>Low temperature and high human<br/>influence the population of onion trips</li> <li>Apply any systemic insecticide 1<br/>ml/lt of water.</li> </ul>   |
| Flowering to fruiting stage         | Poly house  | <ul> <li>Intercultural operations should be dor<br/>regularly to keep the crop free fro<br/>weeds and aeration of the root system</li> <li>Harvest all mature fruits.</li> </ul>   |
|                                     | 24  | <ul> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide<br/>reduce damage of chilli thrips.</li> </ul>  |
| Fruiting to<br>flowering<br>stage   | AIZAWL  | According to forecast and past weath<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.  |
| 25                                  |   | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will make in dry weather. Apply any systematical systematical</li></ul> |
| }                                   | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~   | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>   |
| Vegetative to<br>flowering<br>stage |   | <ul> <li>According to forecast and past weath record, there is no probability rainfall. So weekly twice irrigation required for upcoming week or u straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> </ul>   |
|                                     | NJ V  | <ul> <li>Apply split dose of nitrogenor</li> <li>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|                                     | Transition in the   | In large gardens apply carbaryl 0.2 per ce<br>or malathion 0.15 per cent suspensi-<br>containing sugar or jeggery at 10 g/l<br>fortnightly intervals at flowering and from   |
|                                     | fruiting stage<br>Fruiting to<br>flowering<br>stage<br>Vegetative to<br>flowering | fruiting stage       Image: Constraint of flowering stage         Fruiting to flowering stage       Image: Constraint of flowering stage         Vegetative to flowering       Image: Constraint of flowering  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Potato       Harvesting<br>stage       4       If the leaves and plant became dry it<br>means plant ready for harvesting.         • Open the furrow with the help of<br>spade, harvest all mature tubers.       • Discard all mother tubers from<br>harvested potato tubers.         • Down as Sowing stage       • Discard all mother tubers and sowing.         • Plough the field properly, at least 2-3<br>times.         • Mix fertilizer with FYM 50:60:60Kg<br>/ha.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Plough the field with the help of spade.         • Sowing stage       • Provide fertilizer @ 120: 60: 60 Kg/ha         • Mix fertilizer @ 120: 60: 60 Kg/ha       • Animals must keep in dry place or<br>kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.         • Mix lettilizer       • Provide fertilizer weather conditions of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)         • Provide in grast swine fever (Vaccines<br>available in State Veterinary Departs)         • Culling of positive pigs or piglets.   |             |              |                          |  |
|---|-------------|--------------|--------------------------|--|
| stage       means plant ready for harvesting.         Open the furrow with the help of spade, harvest all mature tubers.       Discard all mother tubers from harvested potato tubers.         Ecowpea       Sowing stage       Keep 25% seed for next season sowing.         Cowpea       Sowing stage       Plough the field properly, at least 2-3 times.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2-3 seed per whole.       Spade 45 X 45 cm spacing.         Sow 2-3 seed provide one or two irrigation.       Plough the field with the help of spade.         Sow 2-3 seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages       All stages         Prig       All stages       Froncine         Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Reproductive Syndrome (PRRS).       1. Culling of positive pigs or piglets.  | Potato      | Harvesting   |                          | 4 If the leaves and plant became dry i             |
| Cowpea       Sowing stage         Cowpea       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         MIMAL HUSBENDARY       Pig         All stages       All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals       Servide acquate potable water.         In injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 20 months of age and 2nd injection at 12 months of   |             |              |                          | means plant ready for harvesting.                  |
| Sowing stage       Sowing stage         Cowpea       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Pig       All stages         Pig       All stages         Pig       All stages         Procine       Service for the mostive point of a state.         Pig       All stages         Procine       Service for the mostive point of a state.         Procine       Reproductive Respiratory Syndrome (PRRS).   |             |              |                          | ↓ Open the furrow with the help o                  |
| Cowpea       Sowing stage       Field property, at least 2-3 times.         Cowpea       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Okra       Sowing stage       Field property, at least 2-3 times.         Plough the field property, at least 2-3 times.       Mix fertilizer with FYM 50:60:60 Kg /ha.         Sowing stage       Field with the help of spade.         Sowing seed per value.       Spacing should be 30 X 20 cm.         Plough the field with the help of spade.       Sow 2 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image:       All stages         Provide adequate potable water.       Image: straw of the straw of the provide to young animals.         Image:       Provide adequate potable water.         Image:       Image: straw of the straw of the provide to young animals.         Image:       Image: straw of the straw of the provide to young animals.         Image:  |             |              |                          |  |
| Animals       Animals       Harvested potato tubers.         Cowpea       Sowing stage       Keep 7 - 10 days for drying or reduce the moisture level in shed dry.         Keep 25% seed for next season sowing.       Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Perovide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         Prig       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 # injection at 12 months of age and 2 nigection at 12 months of age followed by annual vaccination under ve supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 2.1          | 1                        |  |
| Cowpea       Sowing stage       # Keep 7 -10 days for drying or reduce the moisture level in shed dry.         Cowpea       Sowing stage       # Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       # Plough the field with the help of spade.         Sowing stage       # Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       # Borre sowing seed provide one or two irrigation.         Prig       All stages         Prig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         In injection at 6 months of age and 2n injection at 12 months of age and 2n injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Recluce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vacinate against swine fever (Vaccinae available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              | 5                        |  |
| Cowpea       Sowing stage       + Keep 25% seed for next season sowing.         Cowpea       Sowing stage       + Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Sowing stage       + Plough the field with the help of spade.         Okra       Sowing stage       + Plough the field with the help of spade.         NIMAL HUSBENDARY       - Forvide fertilizer @ 120: 60: 60 Kg/ha         Pig       All stages       + Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Provide adequate potable water.       In present weather conditions vaccinate against swine fever (Vaccinces available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              | KOLASIE                  | -  |
| Cowpea       Sowing stage       + Keep 25% seed for next season sowing.         Plough the field properly, at least 2-3 times.       + Mix fertilizer with FYM 50:60:60Kg /ha.         Okra       Sowing stage       + Spacing should be 30 X 20 cm.         Okra       Sowing stage       + Plough the field with the help of spade.         Sow 2-3 seed per whole.       - Sow 2-3 seed per whole.         Sowing stage       + Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       + Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Intel B       - Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Provide adequate potable water.       - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.       - Culling of positive pigs or piglets.  |             | 6            | 0                        | 1 1 1 0 0  |
| Cowpea       Sowing stage       + Plough the field properly, at least 2-3 times.         Mix fertilizer with FYM 50:60:60Kg /ha.       Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       Plough the field with the help of spade.         Okra       Sowing stage       + Plough the field with the help of spade.         Mix fertilizer with FYM 50:60:60 Kg /ha.       + Sow 2-3 seed per whole.         Spacing should be 30 X 20 cm.       + Plough the field with the help of spade.         ANIMAL HUSBENDARY       + Before sowing seed provide one or two irrigation.         Pig       All stages       + Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | )            | WA.                      |  |
| Okra       Sowing stage         Okra       Sowing stage         Okra       Sowing stage         Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         All stages         Pig       All stages         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1 * injection at 12 months of age and 2nd injection at 12 months age and 2nd injection at 12 months age and 2nd injectio  | <b>C</b>    | Coming store | 1 1 1                    |  |
| Okra       Sowing stage       MAMIT       Mix fertilizer with FYM 50:60:60Kg /ha.         Okra       Sowing stage       Spacing should be 30 X 20 cm.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Fig       Fig   | Cowpea      | Sowing stage |                          |  |
| Okra       Sowing stage       /ha.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Prig       All stages       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         Prig       All stages       Frovide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provide to young animals.       Ist injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age and 2nd injection against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 6            | 2 5                      |  |
| Okra       Sowing stage       Sow 2-3 seed per whole.         Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 - 3 seed per whole.       Spacing should be 30 X 20 cm.         Plough the field with the help of spade.       Sow 2 - 3 seed 45 X 45 cm spacing.         Before sowing seed provide one or two irrigation.       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provide to young animals.         All stages       Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to young animals.       Image between the second to be provide to young animals.         Image between the second to be provide to yo  |             |              | 2                        |  |
| Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         Prig       All stages       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image: strain the st   |             | Same         |                          |  |
| Okra       Sowing stage       Plough the field with the help of spade.         Sow 2 seed 45 X 45 cm spacing.       Before sowing seed provide one or two irrigation.         ANIMAL HUSBENDARY       Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY       All stages         Pig       All stages         Image: Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         ANIMAL HUSBENDARY         Pig       All stages         Image: Sow 2 seed 45 X 45 cm spacing.         Image: Sow 2 seed 45 X 45 cm spacing.         Provide fertilizer @ 120: 60: 60 Kg/ha         Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         Image: Sow 2 seed 45 X 45 cm spacing.         Proj (blowed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         Image: Syndrome (PRRS).         Porcine Reproductive Respiratory Syndrome (PRRS).         1. Culling of positive pigs or piglets.  |             | J. WADAT     | X 7                      |  |
| <ul> <li>ANIMAL HUSBENDARY</li> <li>Pig</li> <li>All stages</li> <li>All stages</li> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   |             | 5            | Laizava }                |  |
| <ul> <li>ANIMAL HUSBENDARY</li> <li>Pig</li> <li>All stages</li> <li>All stages</li> <li>All stages</li> <li>Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.</li> <li>1<sup>st</sup> injection at 6 months of age and 2nd injection at 12 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   | Okra        | Sowing stage | and the second           |  |
| ANIMAL HUSBENDARY Pig All stages All stages All stages Pig  |             | 1            | )                        |  |
| ANIMAL HUSBENDARY         Pig       All stages         All stages         Image: State of the stage of the s  |             | 1.5          |                          |  |
| Pig       All stages       Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1* injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              |                          |  |
| Pig       All stages       Animals       must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals.         1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.       1st injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.       Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.   |             | ) 6          |                          | + Provide fertilizer @ 120: 60: 60 Kg/ha           |
| kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.<br>1 <sup>st</sup> injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.  | ANIMAL HUSB | ENDARY       |                          |  |
| kept in alleviated area and dry bedding<br>(straw) to be provided to young<br>animals.<br>1 <sup>st</sup> injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.  | Pig         | All stages   | GERCHN                   | 4 Animals must keep in dry place o                 |
| animals.<br>1st injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.<br>1. Culling of positive pigs or piglets.   | -           | S            | 1 And a second           | kept in alleviated area and dry bedding            |
| animals.<br>1st injection at 6 months of age and<br>2nd injection at 12 months of age<br>followed by annual vaccination under<br>vet supervision against FMD.<br>Reduce concentrate diet up to 5%.<br>Provide adequate potable water.<br>In present weather conditions<br>vaccinate against swine fever (Vaccines<br>available in State Veterinary Departs)<br>1. Culling of positive pigs or piglets.<br>1. Culling of positive pigs or piglets.   |             | 2            |                          | (straw) to be provided to youn                     |
| 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             |              |                          |  |
| 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD.         Reduce concentrate diet up to 5%.         Provide adequate potable water.         In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)         1. Culling of positive pigs or piglets.  |             | 1            |                          | ↓ 1 <sup>st</sup> injection at 6 months of age and |
| Image: Specific state s |             | 1            |                          |  |
| <ul> <li>vet supervision against FMD.</li> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>  |             |              | 1 LINUCLE FIL            |  |
| <ul> <li>Reduce concentrate diet up to 5%.</li> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>  |             | 2            | (11) (1) (1) (1) (1) (1) |  |
| <ul> <li>Provide adequate potable water.</li> <li>In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)</li> <li>1. Culling of positive pigs or piglets.</li> </ul>  |             |              |                          |  |
| <ul> <li>Porcine<br/>Reproductive<br/>Respiratory<br/>Syndrome (PRRS).</li> <li>In present weather conditions<br/>vaccinate against swine fever (Vaccines<br/>available in State Veterinary Departs)</li> <li>Culling of positive pigs or piglets.</li> </ul>   |             | 5            | m 2~                     | _  |
| Vaccinate against swine fever (Vaccines available in State Veterinary Departs)         Porcine         Reproductive         Respiratory         Syndrome (PRRS).  |             |              | 131                      |  |
| Available in State Veterinary Departs)         Porcine         Reproductive         Respiratory         Syndrome (PRRS).  |             |              | Plant                    | -  |
| Porcine<br>Reproductive<br>Respiratory<br>Syndrome (PRRS).       1. Culling of positive pigs or piglets.  |             |              | 7 61                     |  |
| Reproductive<br>Respiratory<br>Syndrome (PRRS).   |             | -            | Porcine                  |  |
| Respiratory<br>Syndrome (PRRS).   |             |              |                          | 1. Cuming of positive pige of pigiets.             |
| Syndrome (PRRS).  |             |              |                          |  |
|   |             |              |                          |  |
| 6 Page  |             |              | Syndrome (r KKS).        | <u>u</u>   |
| 6 Page  |             |              |                          | ÷  |
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**ICAR RESEARCH COMPLEX FOR NEH REGION** 

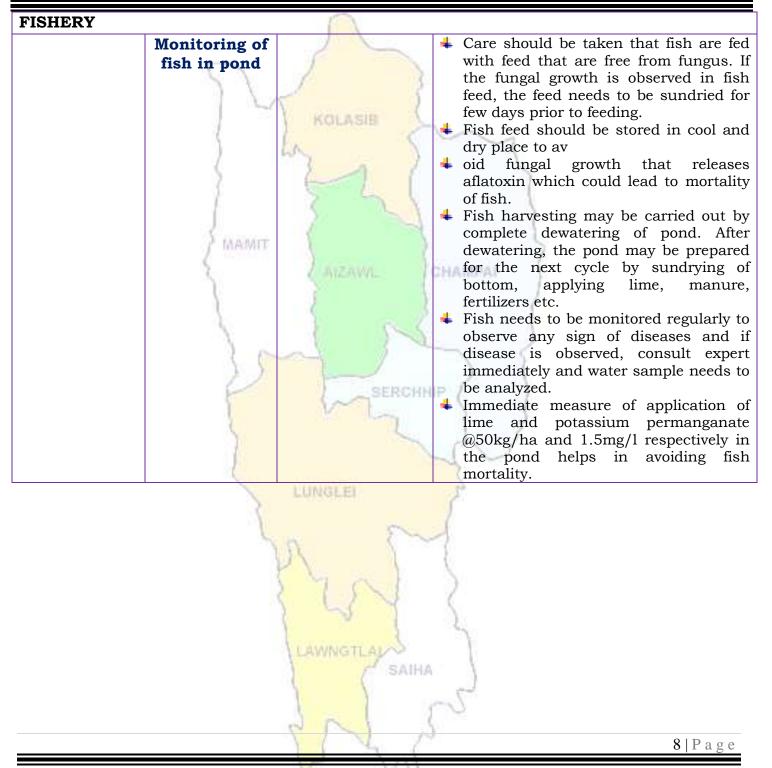


| Cattle  | All age group |   | 4 In present weather conditions, special                   |
|---------|---------------|---|--|
| Cutte   |               |   | care should be taken against attack of                     |
|         |               |   | maggots in the wounds of animals.                          |
|         |               |   | Application of turpentine oil in the                       |
|         | 2.1           | 1 5   | wounds followed by application of                          |
|         |               | 5   | antibiotics for five days is advised.                      |
|         |               | KOLASIB   | <ul> <li>Provide UMB/Molases if possible in the</li> </ul> |
|         | 1             | 0   | feed   |
|         | )             | an J  | Provide 10-30 ml of vitamin B-Complex                      |
|         | 5             | 1 1   | in feed  |
|         | 6             | the second second   | 4 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd       |
|         | E.            |   | injection after 6 months of 1 <sup>st</sup> injection      |
|         |               |   | followed by annual vaccination under                       |
|         | MAMIT         | 1   | vet supervision.   |
|         | 2 martines    | S   | Separate sick animals.                                     |
|         | 30            | ATZAWIL   | 4 The animal should be washed with                         |
|         | 13            | 21  | lukewarm water added with little                           |
|         |               | 6 5   | potash (KMnO4) or neem leaves.                             |
|         |               | 1 5 6   | Long hair near the   |
|         | 13 - 2        |   | udder/stomach/back legs should be                          |
|         | 1 S a 🔇       |   | teamed short.  |
| Poultry | All age group | a series of the | Provide preventive dose of anti-coccidial                  |
|         | 8- 8P         | SERCHN  | drugs to poultry.  |
|         | 1             | Nº Long   | + Proper ventilation of shed.                              |
|         | 5             |   | + Provide glucose/electral along with                      |
|         | 10            |   | vitamin supplements (@5- 6ml/100                           |
|         | 1             |   | birds) with adequate potable water                         |
|         |               | LUNGLEI   | 4 Avoid overcrowding.                                      |
|         | 2             |   | <b>4</b> Provide broad-spectrum antihelminthic             |
|         | 1             | -   | drugs under vet supervision and                            |
|         | 5             | ~ 5~  | recommended doses.   |
|         |               | 1   | <b>4</b> Vaccination as per the schedule with              |
|         |               | The set V   | proper consultation with vet.                              |
|         |               | 2 1 5 5   | → Day old chick: HVT Marek disease                         |
|         |               | 1 55 7  | vaccine, 4-7 days:¬ F/Lasota, 14-18                        |
|         |               |   | days: Intermediate plus/IBD                                |
|         |               | LAWNGTLAL   | vaccine, 35 days: F/Lasota, 6-7                            |
|         |               | SAIHA   | weeks: Chicken embryo adopted                              |
|         |               | ( SAINA   | fowl pox vaccine and 56-70 days:                           |
|         |               |   | RD R-2B strain.  |
|         |               |   | 4 Remove wet litter.                                       |
|         |               | C N N   |  |
|         |               |   | 7   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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

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



### **Expert committee members:**

| Dr. S.B. Singh          | •     | Joint Director               | basantasinghsoibam@rediffmail.com  |
|-------------------------|-------|------------------------------|------------------------------------|
| Di. 5.D. Singh          | •     |                              | busuncusing insolvening cumman.com |
| Dr. Saurav Saha         | 1     | Scientist (Agril. Physics)   | sauravs.saha@gmail.com             |
| Dr. T. Boopathi         | :     | Scientist (Agril Entomology) | boopathiars@gmail.com              |
| Dr. A. Ratankumar Singh | :     | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com          |
| Dr. Lungmuana           | :     | Scientist (Soil Fertility)   | lmsingson@gmail.com                |
| Mr. P.L. Lalrinsanga    | 1:    | Scientist (Aquaculture)      | viensky2@gmail.com                 |
| Dr. Dr. V. Dayal        | 5:    | Scientist (Horticulture)     | Vishambhai5009@gmail.com           |
| Dr. Samuel Lalliansanga | :     | Head & Sr. Scientist         | samuelpachuau10@gmail.com          |
| Mr. Samik Chowdhury     | :     | Technical Officer            | samikchowdhury33@gmail.com         |
| Mr. Evans Syiem         | :     | Meteorological Observer      | evansmeteo@gmail.com               |
|                         | - 0.0 | AV RALL E                    |                                    |

### **Collaborating Department:**

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



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:** Lunglei

| Builden No. 100/2010/ Builden, Mil20 | <b>Bulletin No: -</b> | 783/2018/ | Bulletin/Mizo |
|--------------------------------------|-----------------------|-----------|---------------|
|--------------------------------------|-----------------------|-----------|---------------|

10

1

### Period: 11 April - 15 April, 2018

### Date of issue: 10<sup>th</sup> April, 2018

|   |                                       | $\mathbf{F}$  | 4.5                        |                               |                  |  |
|---|---------------------------------------|---|----------------------------|-------------------------------|------------------|--|
| Parameters                                  | 11.04.2018                            | 12.04.2018  | 13.04.2018                 | 14.04.2018                    | 15.04.2018       |  |
| Rainfall (mm)                               | 9                                     | 16  | 0                          | 0                             | 0                |  |
| Max Temp (°C)                               | <b>p (°C)</b> 32 32                   |   | 32                         | 32                            | 32               |  |
| Min Temp (°C)                               | 18                                    | 18  | 18                         | 18                            | 18               |  |
| Cloud Coverage                              | Partially clear                       | Partially clear   | Mainly clear               | Mainly clear                  | Mainly clear     |  |
| Max RH (%)                                  | 96                                    | 92  | 82                         | 84                            | 79               |  |
| Min RH (%)                                  | 37                                    | 48  | 33                         | 30                            | 28               |  |
| Wind Speed (KmpH)                           | 2                                     | 3   | 4                          | 4                             | 4                |  |
| *Wind Direction                             | E                                     | N-E   | E                          | E                             | E                |  |
| Northe                                      | rly- N, North-                        | Easterly- N-E, Eas  | sterly- E, South           | -Easterly- <mark>S-E</mark> , |                  |  |
| Souther                                     | ly- <mark>S</mark> , South-V          | Westerly- <mark>S-W</mark> , We                                 | sterly-W, North            | -westerly- N-W.               |                  |  |
| Status of Pre Mon                           | nsoon- March 1                        | -31, 2018 (Percent  | of deviation fro           | m normal in pare              | enthesis)        |  |
| Aizawl- 8.42 mm                             | Champh                                | ai- 9.28 mm   | Saiha- 11.37 m             | m Kolasib                     | - 10.51 mm       |  |
| (4.20mm)                                    |                                       | (5.10mm)  | (3.60m                     |                               | (10.80mm)        |  |
| Lawngtlai-7.84mm                            | Lungle                                | <b>i-6.35mm</b>   | Mamit-8.21m                | n Serchh                      | <b>ip-6.37mm</b> |  |
| (3.40mm)                                    |                                       | (4.10mm)  | (8.30m                     |                               | (5.20mm)         |  |
| Weather summary of                          | of the past                           | 11 <sup>th</sup> April – 1                                      | .5 <sup>th</sup> April, 20 | 18 chhunga                    | sik leh sa       |  |
| three day                                   | s                                     |   | dinhmun tu                 |                               |                  |  |
|   |                                       |   |                            |                               |                  |  |
| Maximum Tem. (°C):2                         |                                       | Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo            |                            |                               |                  |  |
| Minimum Tem. (°C):1                         |                                       | tura beisei a ni. Khua a lum lai berin 32ºC a ni ang a. A       |                            |                               |                  |  |
| Maximum RH (%):78-                          |                                       | vawh lai ber in 18°C ni tura beisei a ni. RH san lai berin      |                            |                               |                  |  |
| Minimum RH (%):44-3<br>Wind Direction: Sout | h a a st a st les                     | 79-96% leh a hniam lai berin 41-54% ni tur a rin niin. Thli     |                            |                               |                  |  |
| Cloud cover: Mainly of                      | · · · · · · · · · · · · · · · · · · · | hi darkar khatah 2-4 km vela chakin chhaklam awi                |                            |                               |                  |  |
| Wind speed: 2-3 km/l                        | · · · · · · · · · · · · · · · · · · · | zawngin a tleh i  | rin a ni. A tla            | ngpuiin tun ni                | nga chhung       |  |
| wind speed. 2-3 kin/h                       |                                       | hian khawthiang   | g tak hmuh bei             | sei a ni.                     |                  |  |
| Rainfall: 25.3 mm                           |                                       |   |                            |                               |                  |  |
| Kaiman. 23.3 mm                             |                                       | Weekl   | u cumulative               | rainfall: 25.0r               | nm               |  |
|   |                                       |   | <b>9</b>                   | ···· <b>·</b>                 |                  |  |
| NDVI for Mizoram                            |                                       | North East Region 24 fax  | Mildly day                 | condition oc                  | ours in all      |  |
| MDVI IOI MIZOIAIII                          |                                       | ~   | districts of               |                               | cuis in an       |  |
|   |                                       |   | uistricts of               | mizorani.                     |                  |  |
|   |                                       | man of  |                            |                               |                  |  |
|   |                                       | 24  |                            |                               |                  |  |
|   |                                       | A T   | -                          |                               |                  |  |
|   |                                       | Agriculture signur is moderate over some of the part<br>region. | s North                    |                               |                  |  |
|   |                                       | 6 2   | N                          |                               | 110              |  |
|   |                                       |   |                            |                               | 1   Page         |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

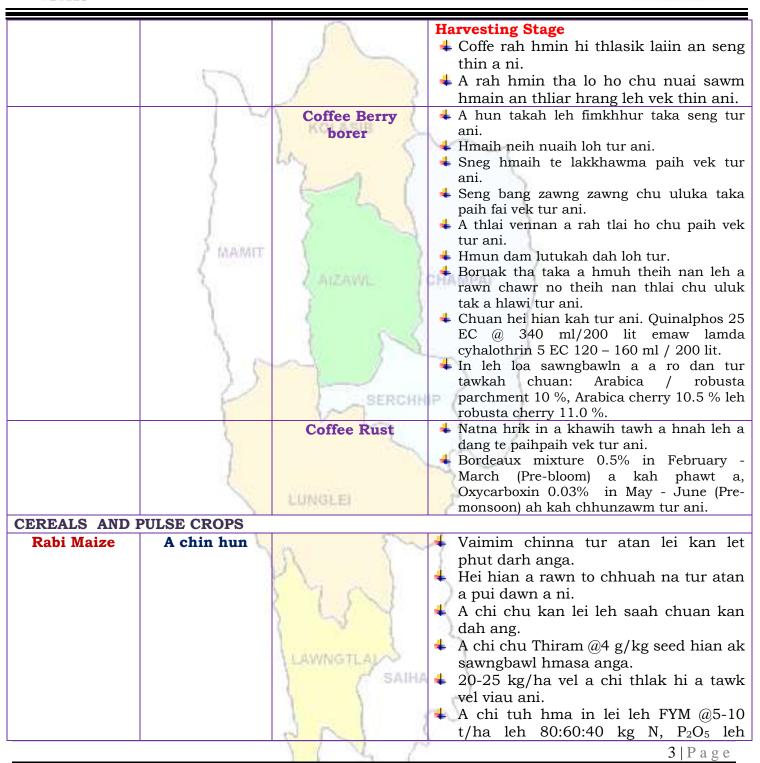


| Main Crop/    | Stage        | Cultural                               | Agricultural / Horticultural/ animal   |
|---------------|--------------|--|--|
| Animal        |              | practices/ Pest/                       | husbandry advisories   |
| /Fisheries    |              | Diseases                               |  |
| FRUITS CROPS  |              | 1                                      | ·  |
| KHASI         | A kui atanga | 2                                      | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun   | KOLASIE                                | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      | 8            | 1 monthouse 2                          | velah dahkhawm tur ani.  |
| LIME          | )            | La N                                   | 4 Thlai naupang deuah chuan chawlh   |
|               | (            | 3 0 1                                  | kar tin a tui pek thin tur ani.  |
| BANANA        | 2            |  | 4 Leia tha mamawh tawk a hmuh  |
|               | 1            | 2 5                                    | theihna turin a hmunhma a hnim awm   |
|               |              |  | te thlawhfai thin tur ani.   |
| STAR FRUIT    | AMAMIT       |  | <b>4</b> A seng hma kar 6 chhung chu tui tha   |
|               | 1 meaning    | 5                                      | taka pek hian a rah tla tur chelh nan  |
|               | 20           | Z AIZAWIL                              | leh a rah than that nan te leh a rah   |
| PLUM AND      |              |  | keh tur lakah t a veng thei ani.   |
| PEACH         | 1            |  |  |
|               |              | 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                           | a trangah te hnawih tur ani.   |
|               | 11           | Dieback                                |  |
|               |              | Fruit fly RCHH                         | Huan zau takah chuan a par tan tirh leh a<br>rah tan tirin chawlhkar hnih chhung chu |
|               | 1            | V La                                   | heng te hian enkawl tur ani: carbaryl 0.2  |
|               | 5            |  | percent emaw malathion 0.15 percent  |
|               | 10           |  | suspension containing sugar or jeggery at  |
|               |              |  | 10 g/l.  |
| PLANTATION CR |              |  |  |
| COFFEE        | All stages   | 11111111111111111111111111111111111111 | Nursery stage  |
|               | 1            | 1994 C                                 | + Thlai chi thlak hma in Azospirillum leh  |
|               |              | n ?~~                                  | Phosphobacterium a enkawl tur ani.   |
|               |              | 1                                      | + A chi hi December – January ah hmun  |
|               |              | the set b                              | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |              | 2 1 5 5 5                              | tlar mumal tak siam in chin tur ani.   |
|               |              | 1 55 7                                 | + Chuan a chi chu lei tlem te a chhilh a   |
|               |              |  | buhpawla khuh tur ani.   |
|               |              | LAWNGTLAL                              | 4 Nitin tui pek tur ani a, a sat lutuka loh  |
|               |              | - SAIHA                                | nan niin a chhun loh nan zar hliah tur   |
|               |              | ( SAINA                                | ani.<br>Ni 45 hara aralah a tiala thia a alay alay                                   |
|               |              |  | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu                                       |
|               |              |  | bag ah an sawn chhuak leh thin ani.  |
|               |              | 6 1 N                                  |  |
|               |              |  | 2   P a g e  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|  | 2                           | $\sum$       | $K_2O/ha$ 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 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> |
| 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       |              | <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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|  |                             | 612 1        | 4   P a g e  |



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



| Onion and            | Numerous      | KOLASIB               | <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 @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>   |
|----------------------|---------------|-----------------------|--|
| capsicum             | Nursery stage | Poly house            | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha 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  | 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 Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul> |
|                      |               | P N S                 |  |
|                      |               | 1 4 6                 | 5   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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> |
|              |                      | 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<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.  |
|              | 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 tu<br>thianghlim an mamawh tawk an hmu<br>tur ani a.   |
|              |                      | P N S   | <b>6</b>   P a g e  |



### ICAR RESEARCH COMPLEX FOR NEH REGION



|         | Durandi               | 0-3 rd week  |                | Tui an in tur chhawpna tur tha /lian<br>tha tak leh tui thianghlim tak pek tur<br>ani.<br>Chaw a hmuar/thing pek loh tur ani a,<br>an chaw eitur thlak sak thut loh tur<br>ani.  |
|---------|-----------------------|--|----------------|--|
|         | Preventive            | U-3 week   |                | <b>Ranikhet</b> Disease- an pian atanga ni<br>1-6 ah F1 vaccine pek tur ani a, chuan   |
|         | measures              | 11   | 4              | a puitlingh chuan R <sub>2</sub> B vaccine pek tur<br>ani.<br>B complex with antibodies  |
|         |                       | 4 <sup>th</sup> weeks  | -              |  |
|         |                       | T. WCCKS   | -              | coccidiosis- Amprolium or coccidiostat   |
|         | A MAGNIT              | 4-5 <sup>th</sup> Weeks  | 4              | Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | 5                     |  | C111           |  |
|         | Monitoriad            | and the state of t |                | Sangha te hi chaw a hmuar kai lo   |
|         | Monitoring<br>(Sangha | 1  | -              | chauh pek thin tur ani. Sangha chaw  |
|         | enkawl)               | 3 66   |                | lo hmuar anih chuan pek hma in ni s  |
|         | elikawij              |  |                | a phoro phawt tur ani.   |
|         | 1                     |  | 4              | Sangha chaw hi a hmuar lohna turii   |
|         | F                     | SERCHH   | ₽)<br><b>+</b> | hmun ro leh uap lutuk lo ah dahtha<br>tur ani a, hmuar atang a tur lo insean<br>thin, aflatoxin avang a sangha thi lal<br>atangin sangha a him phah thin.<br>Dil sah kang veka sangha man thin<br>hian a kumleh a sangha khawinan a di<br>buatsaih a ti awlsam a, dil mawn |
|         |                       | LUNGLEI  | 0              | phoro, chinai phul, leitha hman leh tu   |
|         | 3                     |  | 2              | dang in dil buatsaih tur ani.  |
|         | L                     | m En   | 4              | Sangha te natna lak atangin an him en  |
|         |                       | Phal I   | 5              | tih enfiah fo a tha a, natna hmuh ani<br>chuan mithiam te rawn vat a, diltu<br>enfiah vat tur ani.   |
|         |                       | 5 4 4  | 4              | A ranglam a chinai @50kg/ha lel  |
|         |                       | 1 2 3  | - 24           | tuisen @1.5mg/l diltui a hman hia  |
|         |                       | LAWNGTLAN  |                | sangha natna avang a thi tur lal<br>atangin a veng thei.   |
|         |                       | / SAIHA  |                |  |
|         |                       | 221  |                | 5  |
|         |                       |  |                | <b>7</b>   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)



### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 1: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 64 | Meteorological Observer      | evansmeteo@gmail.com              |

### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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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: - 783/2018/ Bulletin/English

Period: 11 April – 15 April, 2018

Date of issue: 10<sup>th</sup> April, 2018

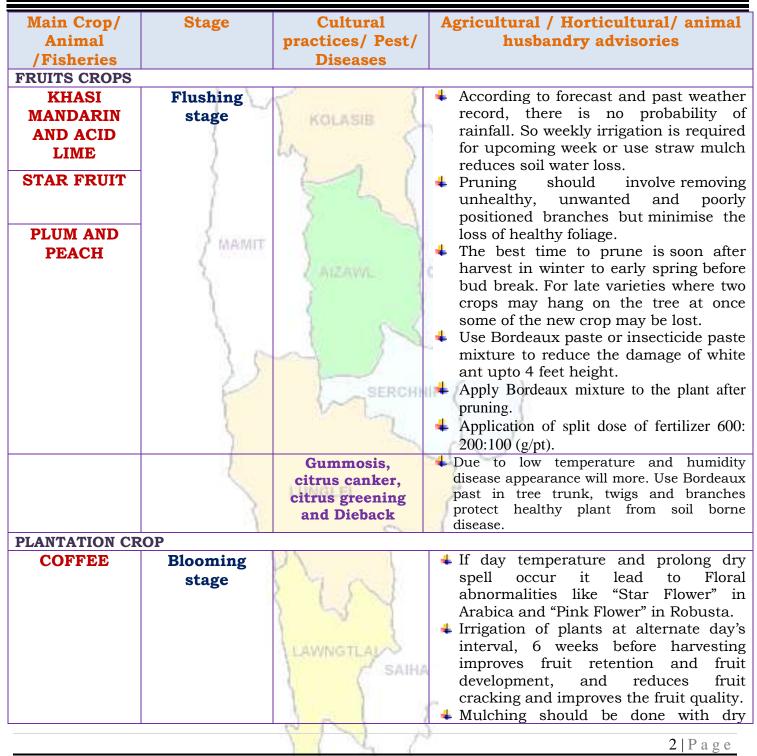
|                       | 8 1                                   | P. I.  | 3                       |                              |                 |
|-----------------------|---------------------------------------|--|-------------------------|------------------------------|-----------------|
| Parameters            | 11.04.2018                            | 3 12.04.2018   | 13.04.2018              | 14.04.2018                   | 15.04.2018      |
| Rainfall (mm)         | 13                                    | 16   | 16                      | 10                           | 25              |
| Max Temp (°C)         | 31                                    | 31   | 31                      | 31                           | 31              |
| Min Temp (°C)         | 17                                    | 17   | 17                      | 17                           | 17              |
| Cloud Coverage        | Partially clea                        | r Partially clear  | Partially clear         | Partially clear              | Partially clear |
| Max RH (%)            | 96                                    | 96   | 94                      | 95                           | 96              |
| Min RH (%)            | 50                                    | 61   | 36                      | 34                           | 34              |
| Wind Speed (KmpH)     | 3                                     | 4  | 4                       | 3                            | 4               |
| *Wind Direction       | S-E                                   | S-E  | S-E                     | S-E                          | S-E             |
| Souther               | rly- <mark>S</mark> , South-          | -Easterly- <mark>N-E</mark> , Eas<br>Westerly- <mark>S-W</mark> , We | sterly-W, North         | -westerly- N-W.              |                 |
|                       |                                       | 1-31, 2018 (Percent  |                         |                              |                 |
| Aizawl- 8.42 mm       | Champl                                |  | Saiha- 11.37 m          |                              | - 10.51 mm      |
| (4.20mm)              |                                       | (5.10mm)   | (3.60m                  |                              | (10.80mm)       |
| Lawngtlai-7.84mm      | Lungl                                 | ei-6.35mm  | Mamit-8.21m             |                              | ip-6.37mm       |
| (3.40mm)              |                                       | (4.10mm)   | (8.30m                  |                              | (5.20mm)        |
| Weather summary       |                                       | Weather fo   |                         | om 11 <sup>th</sup> April, 2 | 2018 To         |
| three day             |                                       |  | 15 <sup>th</sup> April, |                              |                 |
| Maximum Tem. (°C):2   |                                       | There are chance   |                         |                              | <u> </u>        |
| Minimum Tem. (°C):1   |                                       | days. The maxin  | num and min             | imum tempera                 | tures for the   |
| Maximum RH (%):87-    |                                       | next 5 days m  | ay range for            | 31ºC and 17º                 | C. Maximum      |
| Minimum RH (%):54-    |                                       | relative humidity  | y is expected i         | n the range of               | 94-96% and      |
| Wind Direction: Sout  | · · · · · · · · · · · · · · · · · · · | minimum may  | from 34-61%.            | Wind direction               | on would be     |
| Cloud cover: Mainly o |                                       | southeasterly w  | ith the wind s          | speed of 3-4 k               | m per hour.     |
| Wind speed: 2-3 km/   | hr                                    | Partially clear sk   |                         |                              |                 |
| Rainfall: 34.7 mm     |                                       |  | -5 ··· P ·· ··          | 8                            |                 |
| Kainian: 34.7 mm      |                                       | Weekl  | u cumulative i          | rainfall: 80.0               | mm              |
|                       |                                       |  |                         |                              |                 |
| NDVI for Mizoram      |                                       | North East Region 24 fai   | Mildly dry              | condition of                 | curs in all     |
|                       |                                       | ~~   | districts of            |                              | cuis in an      |
|                       |                                       | 5  | uistricts of            | wiizorain.                   |                 |
|                       |                                       | CAR I  | -                       |                              |                 |
|                       |                                       | ALL I  |                         |                              |                 |
|                       |                                       | •₿ <b>=</b> =-   | 1451                    |                              |                 |
|                       |                                       | Agriculture rightr is moderate over some of the per<br>region.       | ta Raeth                |                              |                 |
|                       |                                       | NN   | 30                      |                              |                 |
|                       |                                       |  | 12                      |                              | 1   P a g e     |

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| Rubber       Vegetative<br>stage         Rubber       Vegetative<br>stage         Rubber       Vegetative<br>stage         Amm       According to forecast and past weather<br>record, there is no probability of<br>rainfall. So weekly irrigation is required<br>for upcoming week or use straw mulch<br>reduces soil water loss.         Oil plam       Vegetative/<br>Harvesting<br>stage         Oil plam       Vegetative/<br>Harvesting<br>stage <t< th=""><th></th><th></th><th></th><th></th></t<> |        |             |            |   |
|---|--------|-------------|------------|---|
| Oil plam       Vegetative/<br>Harvesting<br>stage       Image: Fruits are harvested when they attain full<br>size, develop attractive colour with optimum<br>sugar and acid blend.         Oil plam       Vegetative/<br>Harvesting<br>stage       Image: Fruits are harvested when they attain full<br>size, develop attractive colour with optimum<br>sugar and acid blend.   |        | 7           | KOLASIB    | <ul> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride<br/>(a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>   |
| Oil plam       Vegetative/<br>Harvesting<br>stage       * Provide irrigation 10-15 days internal.         * Application of dry leaf mulch or paddy husk<br>to a thickness of about 8 cm. in the basin<br>keeps down the weed growth and decreases<br>the number of irrigations and also improves<br>fruit quality.         * Application of split dose of fertilizer 600:<br>200:100 (g/pt).         * Apply Bordeaux mixture to the plant after<br>pruning.         * Fruits are harvested when they attain full<br>size, develop attractive colour with optimum<br>sugar and acid blend.         CEREALS AND PULSE CROPS         Maize<br>(Jhum)       Sowing stage         * Remove all weed plant from the<br>selected place.         * Keep the plant, leaves and wood for<br>dry.   | Rubber | stage       | AIZAWL     | <ul> <li>record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as</li> </ul>                    |
| Maize<br>(Jhum)       Sowing stage       Image: A constraint of the selected place.         (Jhum)       Keep the plant, leaves and wood for dry.   |        | Harvesting  |            | <ul> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum</li> </ul> |
| (Jhum) selected place.<br>Keep the plant, leaves and wood for dry.  |        |             | Francing a | <b>4</b> Remove all weed plant from the   |
| 31Page  |        | Sound Stuge | SAIHA      | selected place.<br><b>4</b> Keep the plant, leaves and wood for   |
|   |        |             | PN A       | 3   P a g e   |



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|                                 | $\sum_{i=1}^{n}$           | KOLASIB                          | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|---------------------------------|----------------------------|----------------------------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CRO | Sowing stage               | AIZAWL<br>SERCHH                 | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| Ginger and<br>turmeric          | Sowing stage               |                                  | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul>  |
| Onion                           | Bulb<br>formation<br>stage | Poly house<br>LAWNGTLAL<br>SAIHA | <ul> <li>Provide irrigation every alternate day<br/>due to non availability of rain.</li> <li>Intercultural experisions should be</li> </ul>  |
|                                 |                            | 11 L C                           | 4   P a g e   |



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|                                     | A  | applied 30-40 days after transplanting<br>Provide irrigation if water is require.<br>Low temperature and high humidi   |
|-------------------------------------|--|--|
| 5                                   | 23   | <ul> <li>Low temperature and high human<br/>influence the population of onion trip;</li> <li>Apply any systemic insecticide 1<br/>ml/lt of water.</li> </ul>   |
| Flowering to fruiting stage         | Poly house   | Intercultural operations should be dor<br>regularly to keep the crop free from<br>weeds and aeration of the root system.   |
| 1                                   | 54   | <ul> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide reduce damage of chilli thrips.</li> </ul>  |
| Fruiting to<br>flowering<br>stage   | AIZAWL   | According to forecast and past weath<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.  |
| 25                                  | SERCHH   | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Fruit and shoot borer attack will ma<br/>in dry weather. Apply any systemate</li> </ul>                              |
|                                     | 1  | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>   |
| Vegetative to<br>flowering<br>stage |  | <ul> <li>According to forecast and past weath record, there is no probability rainfall. So weekly twice irrigation required for upcoming week or u straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> </ul> |
|                                     | 1224   | <ul> <li>Apply split dose of nitrogenor</li> <li>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|                                     | SAIHA  | In large gardens apply carbaryl 0.2 per ce<br>or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/1<br>fortnightly intervals at flowering and from  |
|                                     | fruiting stage Fruiting to flowering stage Vegetative to flowering | fruiting stage         Fruiting to<br>flowering<br>stage         Vegetative to<br>flowering<br>stage         Vegetative to<br>flowering<br>stage         Fruit fly   |



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



| ICAR        |                     |  |  |
|-------------|---------------------|--|--|
| Potato      | Harvesting<br>stage | <ul> <li>If the leaves and p means plant ready f</li> <li>Open the furrow spade, harvest all m</li> <li>Discard all moth harvested potato tui</li> <li>Keep 7 -10 days for the moisture level in</li> <li>Keep 25% seed for r</li> </ul> | or harvesting.<br>with the help of<br>lature tubers.<br>her tubers from<br>bers.<br>or drying or reduce<br>a shed dry.   |
| Cowpea      | Sowing stage        | <ul> <li>Plough the field protection of times.</li> <li>Mix fertilizer with /ha.</li> <li>Sow 2-3 seed per with /bacing should be 3</li> </ul>   | pperly, at least 2-3<br>FYM 50:60:60Kg<br>hole.<br>30 X 20 cm.   |
| Okra        | Sowing stage        | <ul> <li>Plough the field with</li> <li>Sow 2 seed 45 X 45</li> <li>Before sowing seed irrigation.</li> <li>Provide fertilizer @ 1</li> </ul>  | cm spacing.<br>provide one or two  |
| ANIMAL HUSB |                     | d Animala must loss  |  |
| Pig         | All stages          | vaccinate against sv<br>available in State Ve  | ea and dry bedding<br>rovided to young<br>nonths of age and<br>2 months of age<br>vaccination under<br>nst FMD.<br>diet up to 5%.<br>otable water.<br>ather conditions<br>vine fever (Vaccines<br>eterinary Departs) |
|             |                     | Porcine1. Culling of positiveReproductive1.RespiratorySyndrome (PRRS).   |  |
|             | ·                   | Sal S  |  |
|             |                     |  | 6   Page   |

6 | P a g e



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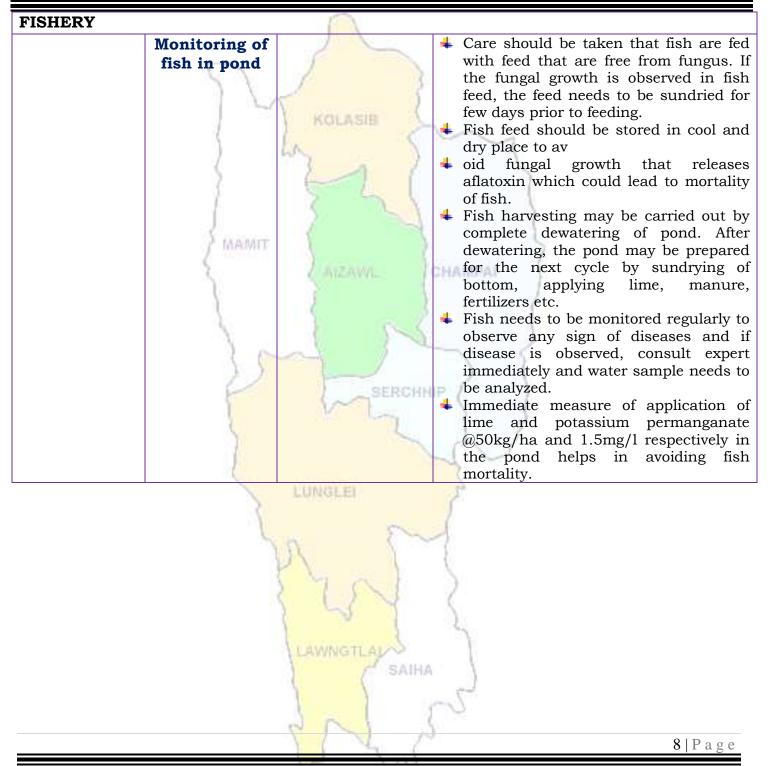


| Cattle  | All age group  |  | 4 In present weather conditions, special              |
|---------|----------------|--|---|
| outtio  | IIII ago group |  | care should be taken against attack of                |
|         |                |  | maggots in the wounds of animals.                     |
|         |                |  | Application of turpentine oil in the                  |
|         | 21             | 1 5  | wounds followed by application of                     |
|         |                |  | antibiotics for five days is advised.                 |
|         |                | KOLASIB  | Provide UMB/Molases if possible in the                |
|         | (              |  | feed  |
|         | )              | way 3  | Provide 10-30 ml of vitamin B-Complex                 |
|         | S              | 2 1  | in feed   |
|         | 5              |  | 4 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd  |
|         | E              |  | injection after 6 months of 1 <sup>st</sup> injection |
|         |                |  | followed by annual vaccination under                  |
|         | MAMIT          |  | vet supervision.                                      |
|         | 10000000       |  | ♣ Separate sick animals.                              |
|         | 1              | ATZAWIL /  | + The animal should be washed with                    |
|         |                |  | lukewarm water added with little                      |
|         |                | 5  | potash (KMnO4) or neem leaves.                        |
|         | S              | 1 55   | Long hair near the                                    |
|         | 1              | 1 3 4  | udder/stomach/back legs should be                     |
|         | 105            |  | teamed short.   |
| Poultry | All age group  | SERCHN   | Provide preventive dose of anti-coccidial             |
| •       |                | - SERCINA  | drugs to poultry.                                     |
|         | 5              |  | Proper ventilation of shed.                           |
|         |                |  | Provide glucose/electral along with                   |
|         |                |  | vitamin supplements (@5- 6ml/100                      |
|         |                |  | birds) with adequate potable water                    |
|         |                | LUNGLEI  | Avoid overcrowding.                                   |
|         | 3              | and the second sec | Provide broad-spectrum antihelminthic                 |
|         |                | 0  | drugs under vet supervision and                       |
|         |                | n (~   | recommended doses.                                    |
|         |                |  | + Vaccination as per the schedule with                |
|         |                | M Real   | proper consultation with vet.                         |
|         |                |  | > Day old chick: HVT Marek disease                    |
|         |                | 22   | vaccine, 4-7 days:- F/Lasota, 14-18                   |
|         |                |  | days: Intermediate plus/IBD                           |
|         |                | LAWNGTLAN  | vaccine, 35 days: F/Lasota, 6-7                       |
|         |                | ≓ SAIHA  | weeks: Chicken embryo adopted                         |
|         |                |  | fowl pox vaccine and 56-70 days:                      |
|         |                |  | RD R-2B strain.                                       |
|         |                | 2013   | Remove wet litter.                                    |
|         |                |  |   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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



### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | 1  | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | 1: | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | :  | Meteorological Observer      | evansmeteo@gmail.com              |

### **Collaborating Department:**

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

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, Cumphati)

Guwahati)



### **District:** Mamit

| Bulletin | <b>No:</b> - | 783, | /2018/ | Bulletin/ | Mizo |
|----------|--------------|------|--------|-----------|------|
|          |              |      |        |           | 0    |

Period: 11 April - 15 April, 2018

### Date of issue: 10<sup>th</sup> April, 2018

|   | S 1                                      | P   | 49 V  |  |  |
|---|--|---|---|--|--|
| Parameters  | 11.04.2018                               | 12.04.2018  | 13.04.2018  | 14.04.2018   | 15.04.2018   |
| Rainfall (mm)   | 3  | 8   | 13  | 7  | 4  |
| Max Temp (°C)   | 32                                       | 32  | 31  | 31   | 32   |
| Min Temp (°C)   | 16                                       | 17  | 17  | 17   | 17   |
| Cloud Coverage  | Partially clear                          | Mainly cloudy   | Mainly cloudy   | Partially clear  | Mainly cloudy  |
| Max RH (%)  | 87                                       | 96  | 99  | 90   | 91   |
| Min RH (%)  | 27                                       | 39  | 56  | 32   | 38   |
| Wind Speed (KmpH)   | 2  | 2   | 2   | 3  | 3  |
| *Wind Direction   | E  | E   | E   | S-E  | S-E  |
| Souther   | ly- <mark>S</mark> , South-V             | Easterly- <mark>N-E</mark> , Eas<br>Westerly- <mark>S-W</mark> , We   | sterly-W, North   | -westerly- N-W.  |  |
| Status of Pre Mon   | nsoon- March 1                           | l-31, 2018 (Percent   | of deviation fro  | m normal in pare   | enthesis)  |
| Aizawl- 8.42 mm   | Champh                                   |   | Saiha- 11.37 m  |  | 10.51 mm   |
| (4.20mm)  |  | (5.10mm)  | (3.60m  |  | (10.80mm)  |
| Lawngtlai-7.84mm  | Lungle                                   | ei-6.35mm   | Mamit-8.21m   |  | ip-6.37mm  |
| (3.40mm)  |  | (4.10mm)  | (8.30m  |  | (5.20mm)   |
| Weather summary of  | · · · · · · · · · · · · · · · · · · ·    | 11 <sup>th</sup> April – 1  | .5 <sup>th</sup> April, 20  | 18 chhunga   | sik leh sa   |
| three day   |  |   | dinhmun tu  |  |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):87-<br>Minimum RH (%):54-0<br>Wind Direction: South<br>Cloud cover: Mainly of<br>Wind speed: 2-3 km/1<br>Rainfall: 34.7 mm | 8°C<br>99%<br>69%<br>heasterly<br>cloudy | Tun ni 5 chhur<br>tura beisei a ni.<br>vawh lai ber in<br>94-96% leh a hn<br>hi darkar khat<br>zawngin a tleh s<br>hian khawthiang<br>Weekl | Khua a lum l<br>17ºC ni tura b<br>iam lai berin 3<br>ah 3-4 km v<br>rin a ni. A tla<br>g tak hmuh bei | ai berin 31ºC a<br>beisei a ni. RH<br>4-61% ni tur a<br>rela chakin ch<br>ngpuiin tun ni | a ni ang a. A<br>san lai berin<br>rin niin. Thli<br>haklam awi<br>nga chhung |
| NDVI for Mizoram  |  | North East Region 29 far  | Mildly dry<br>districts of  | condition oc<br>Mizoram.   | curs in all  |
|   |  | Y N   | M   |  | 1   Page   |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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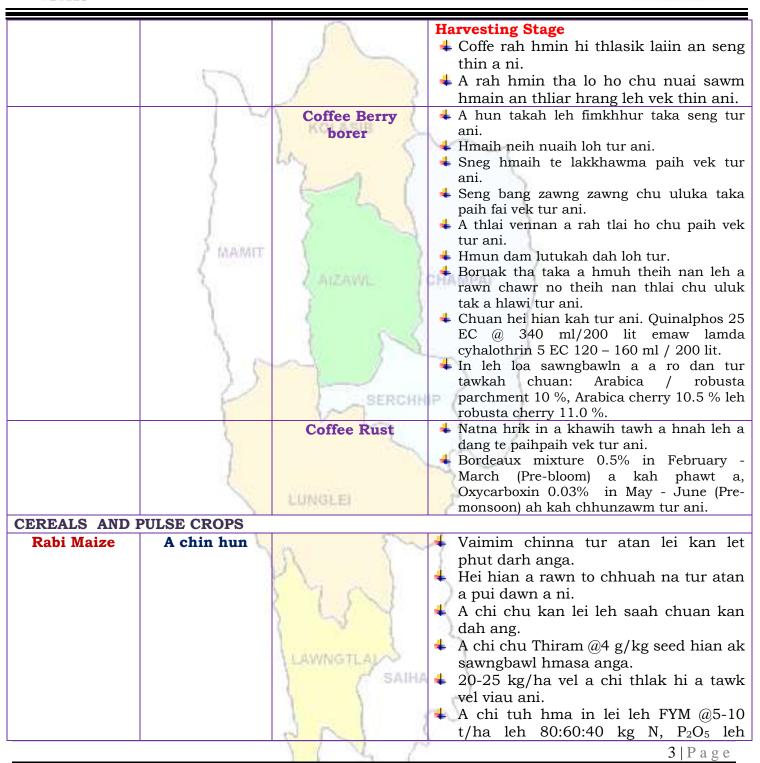


| Main Crop/    | Stage        | Cultural                               | Agricultural / Horticultural/ animal   |
|---------------|--------------|--|--|
| Animal        |              | practices/ Pest/                       | husbandry advisories   |
| /Fisheries    |              | Diseases                               |  |
| FRUITS CROPS  |              | 1                                      | ·  |
| KHASI         | A kui atanga | 2                                      | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN      | a seng hun   | KOLASIE                                | vennan chuan hnim hnah hring tlai bul  |
| AND ACID      | 8            | 1 monthouse 2                          | velah dahkhawm tur ani.  |
| LIME          | )            | La N                                   | 4 Thlai naupang deuah chuan chawlh   |
|               | (            | 3 0 1                                  | kar tin a tui pek thin tur ani.  |
| BANANA        | 2            |  | 4 Leia tha mamawh tawk a hmuh  |
|               | 1            | 2 5                                    | theihna turin a hmunhma a hnim awm   |
|               |              |  | te thlawhfai thin tur ani.   |
| STAR FRUIT    | AMAMIT       |  | <b>4</b> A seng hma kar 6 chhung chu tui tha   |
|               | 1 meaning    | 5                                      | taka pek hian a rah tla tur chelh nan  |
|               | 20           | Z AIZAWIL                              | leh a rah than that nan te leh a rah   |
| PLUM AND      |              |  | keh tur lakah t a veng thei ani.   |
| PEACH         | 1            |  |  |
|               |              | 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                           | a trangah te hnawih tur ani.   |
|               | 11           | Dieback                                |  |
|               |              | Fruit fly RCHH                         | Huan zau takah chuan a par tan tirh leh a<br>rah tan tirin chawlhkar hnih chhung chu |
|               | 1            | V La                                   | heng te hian enkawl tur ani: carbaryl 0.2  |
|               | 5            |  | percent emaw malathion 0.15 percent  |
|               | 10           |  | suspension containing sugar or jeggery at  |
|               |              |  | 10 g/l.  |
| PLANTATION CR |              |  |  |
| COFFEE        | All stages   | 11111111111111111111111111111111111111 | Nursery stage  |
|               | 1            | 1994 C                                 | + Thlai chi thlak hma in Azospirillum leh  |
|               |              | n ?~~                                  | Phosphobacterium a enkawl tur ani.   |
|               |              | 1                                      | + A chi hi December – January ah hmun  |
|               |              | the set b                              | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|               |              | 2 1 5 5 5                              | tlar mumal tak siam in chin tur ani.   |
|               |              | 1 55 7                                 | + Chuan a chi chu lei tlem te a chhilh a   |
|               |              |  | buhpawla khuh tur ani.   |
|               |              | LAWNGTLAL                              | 4 Nitin tui pek tur ani a, a sat lutuka loh  |
|               |              | - SAIHA                                | nan niin a chhun loh nan zar hliah tur   |
|               |              | ( SAINA                                | ani.<br>Ni 45 hara aralah a tiala thia a alay alay                                   |
|               |              |  | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu                                       |
|               |              |  | bag ah an sawn chhuak leh thin ani.  |
|               |              | 6 1 N                                  |  |
|               |              |  | 2   P a g e  |



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







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|  | 2                           | $\sum$       | $K_2O/ha$ 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 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> |
| 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       |              | <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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|  |                             | 612 1        | 4   P a g e  |



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| Onion and            | Numerous      | KOLASIB               | <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 @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>   |
|----------------------|---------------|-----------------------|--|
| capsicum             | Nursery stage | Poly house            | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha 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  | 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 Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.</li> </ul> |
|                      |               | P N S                 |  |
|                      |               | 1 4 6                 | 5   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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> |
|              |                      | 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<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.  |
|              | 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 tu<br>thianghlim an mamawh tawk an hmu<br>tur ani a.   |
|              |                      | P N S   | <b>6</b>   P a g e  |



### ICAR RESEARCH COMPLEX FOR NEH REGION



|         |                                  | 0-3 rd week             | <ul> <li>Tui an in tur chhawpna tur tha /lia<br/>tha tak leh tui thianghlim tak pek tu<br/>ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a<br/>an chaw eitur thlak sak thut loh tu<br/>ani.</li> <li>Ranikhet Disease- an pian atanga n</li> </ul>  |
|---------|----------------------------------|-------------------------|--|
|         | Preventive                       | U-3 " week              | Ranikhet Disease- an pian atanga r<br>1-6 ah F1 vaccine pek tur ani a, chua  |
|         | measures                         | 217                     | <ul> <li>a puitlingh chuan R<sub>2</sub>B vaccine pek tu<br/>ani.</li> <li>B complex with antibodies</li> </ul>  |
|         |                                  | 4 <sup>th</sup> weeks   |  |
|         |                                  | T- WCCKS                | Coccidiosis- Amprolium o<br>coccidiostat   |
|         | / MAGNIT                         | 4-5 <sup>th</sup> Weeks | <ul> <li>Calcium tonic fortified with B<sub>12</sub></li> </ul>  |
| FISHERY | 5                                |                         |  |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai l chauh pek thin tur ani. Sangha chaw lo hmuar anih chuan pek hma in ni s a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insear thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a d buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him er tih enfiah fo a tha a, natna hmuh ani chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha lei tuisen @1.5mg/l diltui a hman hiar sangha natna avang a thi tur la atangin a veng thei.</li> </ul> |
|         |                                  | 201                     | 4 <sup>0054</sup>  |
|         |                                  |                         | 7   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)



### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 1: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 64 | Meteorological Observer      | evansmeteo@gmail.com              |

### **Collaborating Department:**

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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

Guwahati)



### **District: Saiha**

Bulletin No: - 783/2018/ Bulletin/English

Period: 11 April – 15 April, 2018

Date of issue: 10<sup>th</sup> April, 2018

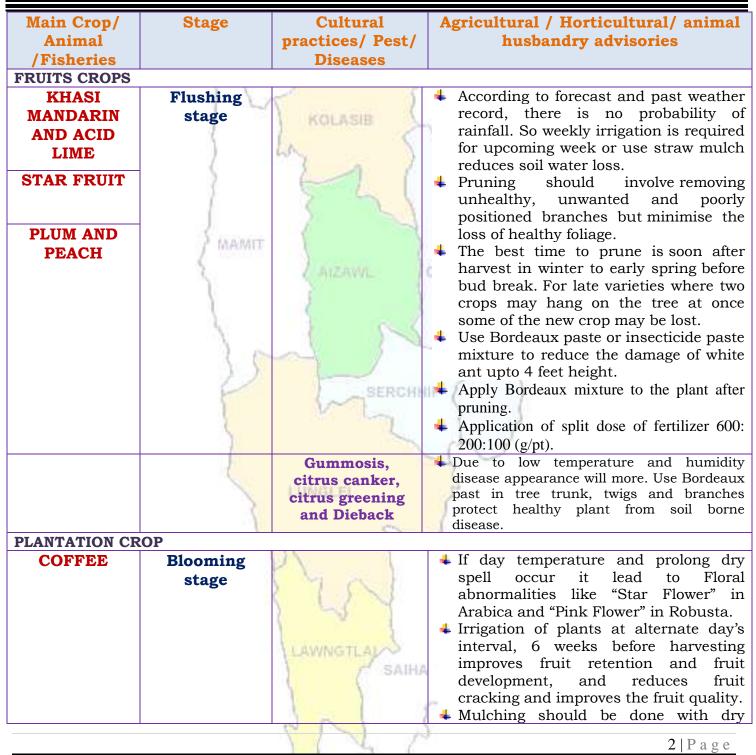
|                       | 1 1                                   | ge -   | (C)                     |                              |                 |  |
|-----------------------|---------------------------------------|--|-------------------------|------------------------------|-----------------|--|
| Parameters            | 11.04.2018                            | 12.04.2018   | 13.04.2018              | 14.04.2018                   | 15.04.2018      |  |
| Rainfall (mm)         | 0                                     | 3  | 5                       | 0                            | 0               |  |
| Max Temp (°C)         | 31                                    | 31   | 31                      | 31                           | 31              |  |
| Min Temp (°C)         | 17                                    | 17   | 17                      | 17                           | 17              |  |
| Cloud Coverage        | Partially clear                       | Partially clear  | Partially clear         | Partially clear              | Partially clear |  |
| Max RH (%)            | 98                                    | 76   | 80                      | 78                           | 62              |  |
| Min RH (%)            | 31                                    | 36   | 30                      | 25                           | 23              |  |
| Wind Speed (KmpH)     | 4                                     | 4  | 4                       | 4                            | 4               |  |
| *Wind Direction       | E                                     | E  | E                       | E                            | E               |  |
|                       |                                       | Easterly- N-E, Easterly-                                       |                         |                              |                 |  |
|                       |                                       | Westerly- <mark>S-W</mark> , We                                |                         |                              |                 |  |
|                       |                                       | 1-31, 2018 (Percent  |                         |                              |                 |  |
| Aizawl- 8.42 mm       | Champh                                |  | Saiha- 11.37 m          |                              | - 10.51 mm      |  |
| (4.20mm)              |                                       | (5.10mm)   | (3.60m                  |                              | (10.80mm)       |  |
| Lawngtlai-7.84mm      | Lungle                                | ei-6.35mm  | Mamit-8.21m             |                              | ip-6.37mm       |  |
| (3.40mm)              |                                       | (4.10mm)   | (8.30m                  |                              | (5.20mm)        |  |
| Weather summary       | -                                     | Weather fo   |                         | om 11 <sup>th</sup> April, 2 | 2018 To         |  |
| three day             |                                       |  | 15 <sup>th</sup> April, |                              |                 |  |
| Maximum Tem. (°C):2   |                                       | There are chance   | es of light rain        | fall during the              | next 2 days.    |  |
| Minimum Tem. (°C):1   |                                       | The maximum and minimum temperatures for the next 5            |                         |                              |                 |  |
| Maximum RH (%):87-    |                                       | days may range   | e for 31ºC an           | d 17ºC. Maxir                | num relative    |  |
| Minimum RH (%):48-    |                                       | humidity is expe   | cted in the ran         | ge of 62-98% a               | nd minimum      |  |
| Wind Direction: Sout  | · · · · · · · · · · · · · · · · · · · | may from 23-36   | %. Wind direc           | tion would be                | easterly with   |  |
| Cloud cover: Mainly o |                                       | the wind speed   |                         |                              |                 |  |
| Wind speed: 2 km/hr   |                                       | prevail during th  | -                       | •                            | <i>J</i>        |  |
| Rainfall: 23.4 mm     |                                       | P88  | j                       |                              |                 |  |
| Kainiali: 23.4 mm     |                                       | Weekl  | u cumulative i          | rainfall: 08.0 1             | mm              |  |
|                       |                                       | in contra  | g cumulative i          | ungun ooro i                 |                 |  |
| NDVI for Mizoram      |                                       | North East Region 24 fa  | Mildly day              | condition oc                 | ours in all     |  |
| NDVI IOI MIZOIAIII    |                                       | ~  | districts of            |                              | cuis in an      |  |
|                       |                                       | 533  | districts of            | mizorani.                    |                 |  |
|                       |                                       | man de   |                         |                              |                 |  |
|                       |                                       | 249  |                         |                              |                 |  |
|                       |                                       | A B  | l Hereit                |                              |                 |  |
|                       |                                       | Agriculture rigour is moderate over some of the per<br>region. | s North                 |                              |                 |  |
|                       |                                       | 201  | 30000                   |                              |                 |  |
|                       |                                       | 114  | ["                      |                              | 1   Page        |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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| Soli moisture during winter.         The young fruit plant must be irrigated at weekly interval for bette establishment.         Rubber       Vegetative stage         Rubber       Vegetative stage         AMMT       According to forecast and past weathe record, there is no probability o rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Oil plam       Vegetative/<br>Harvesting stage         Oil plam       Vegetative/<br>Harvesting         Oil plam       Vegetative/<br>Harvesting stage         Vegetative/<br>Harvesting stage       Provide irrigation 10-15 days internal.         Provide irrigation of dry leaf mulch or paddy husi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thickness of about 8 cm. in the basi to a thick | ICAR   |                     |            |   |
|--|--------|---------------------|------------|---|
| Stage       record, there is no probability or rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.         Oil plam       Vegetative/<br>Harvesting stage       Make fire line around the field to saw from fire.         Oil plam       Vegetative/<br>Harvesting stage       Make fire line around the field to saw from fire.         Oil plam       Vegetative/<br>Harvesting stage       Provide irrigation 10-15 days internal.         * Application of dry leaf mulch or paddy husl to a thickness of about 8 cm. in the basin keeps down the weed growth and decrease the number of irrigation of split dose of fertilizer 600 200:100 (g/pt).         * Apply Bordeaux mixture to the plant after pruning.         * Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.         CEREALS AND PULSE CROPS         Maize (Jfhurm)         Sowing stage  |        | 7                   | KOLASIB    | <ul> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride<br/>(a) 1000 PPM concentration or 0.75% SSP (a) 1.5 g per 200 lt of water 15 days interval.</li> </ul>   |
| Harvesting<br>stage       * Application of dry leaf mulch or paddy husl<br>to a thickness of about 8 cm. in the basin<br>keeps down the weed growth and decrease<br>the number of irrigations and also improve<br>fruit quality.         * Application of split dose of fertilizer 600<br>200:100 (g/pt).         * Apply Bordeaux mixture to the plant afte<br>pruning.         * Fruits are harvested when they attain ful<br>size, develop attractive colour with optimun<br>sugar and acid blend.         CEREALS AND PULSE CROPS         Maize<br>(Jhum)       Sowing stage         * Remove all weed plant from the<br>selected place.         * Keep the plant, leaves and wood for<br>dry.   | Rubber | stage               | AIZAWL     | <ul> <li>record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as</li> </ul>                    |
| Maize<br>(Jhum)       Sowing stage       Remove all weed plant from the selected place.         Keep the plant, leaves and wood for dry.   |        | Harvesting<br>stage |            | <ul> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum</li> </ul> |
| (Jhum) selected place.<br>Keep the plant, leaves and wood for dry.   |        | 1                   | Francing a | <b>4</b> Remove all weed plant from the   |
| 210.000  |        |                     | SAIHA      | selected place.<br>Keep the plant, leaves and wood for  |
| 1 P A Ø E  |        |                     | PN A       | 3   P a g e   |



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|                                | $\sum_{i=1}^{n}$           | KOLASIB                          | <ul> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with 80:60:40 kg N, P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.</li> </ul> |
|--------------------------------|----------------------------|----------------------------------|---|
| Rice<br>(Jhum)<br>VEGETABLE CR | Sowing stage               | AIZAWL                           | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm from plant to plant.</li> </ul>   |
| Ginger and<br>turmeric         | Sowing stage               |                                  | <ul> <li>Rhizome should be treated with Thiram @4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</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 before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one</li> </ul>  |
| Onion                          | Bulb<br>formation<br>stage | Poly house<br>LAWNGTLAL<br>SAIHA | <ul> <li>month and 25% at flowering stage.</li> <li>Provide irrigation every alternate day due to non availability of rain.</li> <li>Intercultural operations should be</li> </ul>  |
|                                |                            | VIL /                            | 4   P a g e   |



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|          |                                     | A                                       | <ul> <li>applied 30-40 days after transplanting</li> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidities</li> </ul>  |
|----------|-------------------------------------|---|---|
|          | 52                                  | 23                                      | <ul> <li>Low temperature and high number<br/>influence the population of onion trips</li> <li>Apply any systemic insecticide 1.<br/>ml/lt of water.</li> </ul>  |
| Capsicum | Flowering to fruiting stage         | Poly house                              | <ul> <li>Intercultural operations should be dorn<br/>regularly to keep the crop free from<br/>weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> </ul>                       |
|          | 1                                   | 24                                      | <ul> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide reduce damage of chilli thrips.</li> </ul>   |
| Brinjal  | Fruiting to<br>flowering<br>stage   | AIZAWL                                  | According to forecast and past weather<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.             |
|          | 25                                  | SERCHH                                  | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Fruit and shoot borer attack will man<br/>in dry weather. Apply any systemat</li> </ul> |
|          |                                     | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | <ul> <li>insecticide for better cure.</li> <li>Harvest all mature fruit.</li> <li>Seed must be keep for next ra season.</li> </ul>  |
| Chilli   | Vegetative to<br>flowering<br>stage |   | According to forecast and past weath<br>record, there is no probability<br>rainfall. So weekly twice irrigation<br>required for upcoming week or us<br>straw mulch reduces soil water loss.               |
|          |                                     | 12M                                     | <ul> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenou<br/>fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> </ul>   |
|          |                                     | SAIHA                                   | In large gardens apply carbaryl 0.2 per cell<br>or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/l<br>fortnightly intervals at flowering and fru-<br>initiation.              |
|          |                                     | PN S                                    | 5   P a g e   |



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| ICAR        |                     |  |   |
|-------------|---------------------|--|---|
| Potato      | Harvesting<br>stage | <ul> <li>If the leaves and plant becaumeans plant ready for harvest</li> <li>Open the furrow with the spade, harvest all mature tube</li> <li>Discard all mother tube harvested potato tubers.</li> <li>Keep 7 -10 days for drying of the moisture level in shed dry</li> <li>Keep 25% seed for next season</li> </ul> | ing.<br>help of<br>ers.<br>rs from<br>or reduce   |
| Cowpea      | Sowing stage        | <ul> <li>Plough the field properly, at times.</li> <li>Mix fertilizer with FYM 50 /ha.</li> <li>Sow 2-3 seed per whole.</li> <li>Spacing should be 30 X 20 cm</li> </ul>   | least 2-3<br>):60:60Kg<br>n.  |
| Okra        | Sowing stage        | <ul> <li>Plough the field with the help</li> <li>Sow 2 seed 45 X 45 cm spacin</li> <li>Before sowing seed provide or irrigation.</li> <li>Provide fertilizer @ 120: 60: 60</li> </ul>  | ng.<br>ne or two  |
| ANIMAL HUSB |                     | A given by several bases in the  |   |
| Pig         | All stages          | vaccinate against swine fever<br>available in State Veterinary I   | y bedding<br>o young<br>age and<br>s of age<br>on under<br>o 5%.<br>er.<br>onditions<br>(Vaccines<br>Departs) |
|             |                     | Porcine<br>Reproductive<br>Respiratory1. Culling of positive pigs or pigSyndrome (PRRS).   | lets.   |
|             |                     | S S S  |   |
|             |                     | 6  | Page  |

6 | P a g e



**ICAR RESEARCH COMPLEX FOR NEH REGION** 

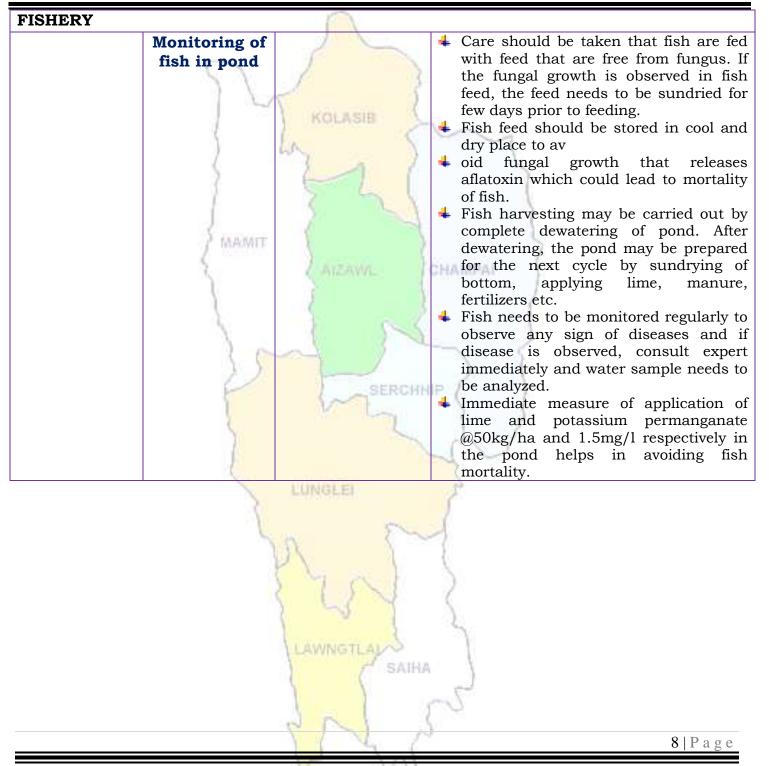


| Cattle  | All age group |                                 | 4 In present weather conditions, special                   |
|---------|---------------|---------------------------------|--|
|         |               |                                 | care should be taken against attack of                     |
|         |               |                                 | maggots in the wounds of animals.                          |
|         |               |                                 | Application of turpentine oil in the                       |
|         | 2.1           | 1 2                             | wounds followed by application of                          |
|         |               | 5 )                             | antibiotics for five days is advised.                      |
|         |               | KOLASIB                         | <ul> <li>Provide UMB/Molases if possible in the</li> </ul> |
|         | (             | 0.00                            | feed   |
|         | )             | way in the                      | Provide 10-30 ml of vitamin B-Complex                      |
|         | S             | 2 1 1                           | in feed  |
|         | 5             | and a second second             | 4 1 <sup>st</sup> injection at 6-8 weeks of age, 2nd       |
|         | E             |                                 | injection after 6 months of 1 <sup>st</sup> injection      |
|         |               |                                 | followed by annual vaccination under                       |
|         | MAMIT         | 1                               | vet supervision.   |
|         | 2 mass() ()   |                                 | <ul> <li>Separate sick animals.</li> </ul>                 |
|         | 3.            | ATZAWIL                         | 4 The animal should be washed with                         |
|         |               |                                 | lukewarm water added with little                           |
|         |               | 6 5                             | potash (KMnO4) or neem leaves.                             |
|         | S             | 1 55                            | Long hair near the   |
|         |               | V 3 M                           | udder/stomach/back legs should be                          |
|         | 5.0           |                                 | teamed short.  |
| Poultry | All age group | at the second                   | Provide preventive dose of anti-coccidial                  |
|         | 18- 8I        | SERCHH                          | drugs to poultry.  |
|         | 1             | No. Long                        | Proper ventilation of shed.                                |
|         | S             |                                 | + Provide glucose/electral along with                      |
|         |               |                                 | vitamin supplements (@5- 6ml/100                           |
|         | 1             |                                 | birds) with adequate potable water                         |
|         |               | LUNGLEI                         | Avoid overcrowding.  |
|         | 3             | and a state of the state of the | Provide broad-spectrum antihelminthic                      |
|         | 1             | 1000                            | drugs under vet supervision and                            |
|         | 5             | n (~~                           | recommended doses.   |
|         |               | 35 1                            | + Vaccination as per the schedule with                     |
|         |               |                                 | proper consultation with vet.                              |
|         |               | 2 1 5 53                        | Day old chick: HVT Marek disease                           |
|         |               | 1 55 7                          | vaccine, 4-7 days:¬ F/Lasota, 14-18                        |
|         |               | 1 1 1                           | days: Intermediate plus/IBD                                |
|         |               | LAWNGTLAN                       | vaccine, 35 days: F/Lasota, 6-7                            |
|         |               | - SAIHA                         | weeks: Chicken embryo adopted                              |
|         |               | ( ( Shink                       | fowl pox vaccine and 56-70 days:                           |
|         |               |                                 | RD R-2B strain.  |
|         |               |                                 | 4 Remove wet litter.                                       |
|         |               | C' N                            |  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 







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

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



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director                              | basantasinghsoibam@rediffmail.com |
|-------------------------|----|---|-----------------------------------|
| Dr. Saurav Saha         | 1  | Scientist (Agril. Physics)                  | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scient <mark>ist (Agril Entomol</mark> ogy) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)                 | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           |    | Scientist (Soil Fertility)                  | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)                     | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)                    | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist                        | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer                           | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         |    | Meteorological Observer                     | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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



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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 | <b>No:</b> - | 783/2018/ | / Bulletin/Mizo |  |
|----------|--------------|-----------|-----------------|--|
|          |              |           |                 |  |

### Period: 11 April – 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|  |                                       |  | 413                        |                                |                  |  |
|--|---------------------------------------|--|----------------------------|--------------------------------|------------------|--|
| Parameters                                 | 11.04.2018                            |  | 13.04.2018                 | 14.04.2018                     | 15.04.2018       |  |
| Rainfall (mm)                              | 0                                     | 3  | 5                          | 0                              | 0                |  |
| Max Temp (°C)                              | 31                                    | 31   | 31                         | 31                             | 31               |  |
| Min Temp (°C)                              | 17                                    | 17   | 17                         | 17                             | 17               |  |
| Cloud Coverage                             | Partially clear                       | Partially clear  | Partially clear            | Partially clear                | Partially clear  |  |
| Max RH (%)                                 | 98                                    | 76   | 80                         | 78                             | 62               |  |
| Min RH (%)                                 | 31                                    | 36   | 30                         | 25                             | 23               |  |
| Wind Speed (KmpH)                          | 4                                     | 4  | 4                          | 4                              | 4                |  |
| *Wind Direction                            | E                                     | E  | E                          | E                              | E                |  |
| Northe                                     | rly- N, North-                        | Easterly- N-E, E   | asterly- E, Sout           | h-Easterly- <mark>S-E</mark> , | ·                |  |
| Souther                                    | rly- <mark>S</mark> , South-          | Westerly- <mark>S-W</mark> , W   | Vesterly-W, Nort           | h-westerly- N-W                |                  |  |
| Status of Pre Mo                           | nsoon- March                          | 1-31, 2018 (Percen   | nt of deviation fro        | om normal in par               | enthesis)        |  |
| Aizawl- 8.42 mm                            | Champh                                | ai- 9.28 mm  | Saiha- 11.37 n             | nm Kolasit                     | - 10.51 mm       |  |
| (4.20mm)                                   |                                       | (5.10mm)   | ( <b>3.6</b> 0r            | nm)                            | (10.80mm)        |  |
| Lawngtlai-7.84mm                           | Lungle                                | ei-6.35mm  | Mamit-8.21m                | m Serchl                       | 11p-6.37mm       |  |
| (3.40mm)                                   | _                                     | (4.10mm)   | (8.30n                     | nm)                            | (5.20mm)         |  |
| Weather summary                            | of the past                           | 11 <sup>th</sup> April –   | 15 <sup>th</sup> April. 20 | 018 chhunga                    | sik leh sa       |  |
| three day                                  | -                                     | 11 <sup>th</sup> April – 15 <sup>th</sup> April, 2018 chhunga sik leh sa<br>dinhmun tur tlangpui |                            |                                |                  |  |
|  |                                       | <b>T</b> : 0 11  |                            |                                |                  |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1 |                                       | Tun ni 2 chhu  | 0                          |                                |                  |  |
| · · · · ·                                  |                                       | tura beisei a n  |                            |                                |                  |  |
| Maximum RH (%):87-<br>Minimum RH (%):48-   |                                       | vawh lai ber in 17°C ni tura beisei a ni. RH san lai berin of                                    |                            |                                |                  |  |
|  |                                       | 62-98% leh a hniam lai berin 23-36% ni tur a rin niin. Thli                                      |                            |                                |                  |  |
| Wind Direction: Sout                       | ✓                                     | hi darkar khata  | ah 4 km vela cl            | nakin chhaklan                 | n awi zawngin    |  |
| Cloud cover: Mainly of                     | · · · · · · · · · · · · · · · · · · · | a tleh rin a r   | ni. A tlangpuii            | n tun ni nga                   | chhung hian      |  |
| Wind speed: 2 km/hr                        | ·                                     | khawthiang tak   | 01                         | U U                            | U                |  |
| Rainfall: 23.4 mm                          |                                       |  |                            |                                |                  |  |
| Kainiali: 23.4 mm                          |                                       | Weel   | cly cumulative             | rainfall: 08.0                 | mm               |  |
|  |                                       |  | lig cumulative             | rungun oo.o                    |                  |  |
| NDVI for Mizoram                           |                                       | North East Region 2  | Mildlar da                 | a condition                    | 0.011#00 in 0.11 |  |
| MDVI IOF MIZOFAM                           |                                       |  | Milaly al                  | y condition o                  | ccurs in all     |  |
|  |                                       | 23   | districts of               | Mizoram.                       |                  |  |
|  |                                       | Sea 1  |                            |                                |                  |  |
|  |                                       | 20   |                            |                                |                  |  |
|  |                                       | 00   | : ]                        |                                |                  |  |
|  |                                       | No.<br>Agriculture region is moderate over some of the   | parts North                |                                |                  |  |
|  |                                       | april 1  |                            |                                |                  |  |
|  |                                       | 1 / V  | 10                         |                                | 1   P a g e      |  |
|  |                                       |  |                            |                                | 0 -              |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



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

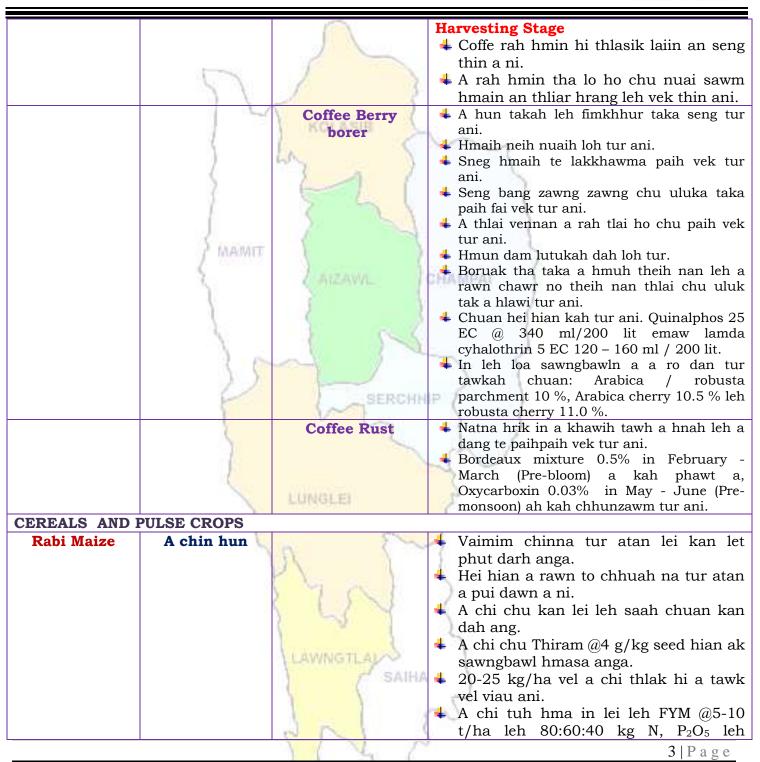


| Main Crop/        | Stage        | Cultural                | Agricultural / Horticultural/ animal   |
|-------------------|--------------|-------------------------|--|
| Animal            |              | practices/ Pest/        | husbandry advisories   |
| /Fisheries        |              | Diseases                |  |
| FRUITS CROPS      |              | I                       | l  |
| KHASI             | A kui atanga | 2                       | 4 Thlasik laia thlai bul khoro lutuk tur   |
| MANDARIN          | a seng hun   | KOLASIB                 | vennan chuan hnim hnah hring tlai bul  |
| AND ACID          |              | 1 NOLMOID >             | velah dahkhawm tur ani.  |
| LIME              | )            | LA N                    | 4 Thlai naupang deuah chuan chawlh   |
|                   | (            | 3 4 1                   | kar tin a tui pek thin tur ani.  |
| BANANA            | 2            |                         | 4 Leia tha mamawh tawk a hmuh  |
|                   | 1            | 2 5                     | theihna turin a hmunhma a hnim awm   |
|                   |              |                         | te thlawhfai thin tur ani.   |
| STAR FRUIT        | AMAMIT       |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha   |
|                   | 1 meaning    | 5                       | taka pek hian a rah tla tur chelh nan  |
| PLUM AND          | 30           | ATZAWIL I               | leh a rah than that nan te leh a rah   |
| PLOM AND<br>PEACH |              |                         | keh tur lakah t a veng thei ani.   |
| РЕАСП             | 1            |                         | Transmenterer huiser hetel. 1-h. husererer sone                                      |
|                   |              | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna |
|                   | 1            | canker, citrus          | laka vennan Bordeaux past hi thing zar leh   |
|                   | 500          | greening and<br>Dieback | a trangah te hnawih tur ani.   |
|                   | 11           |                         | <ul> <li>Huan zau takah chuan a par tan tirh leh a</li> </ul>                        |
|                   |              | Fruit fly RCHH          | rah tan tirin chawlhkar hnih chhung chu  |
|                   | 6            | V La                    | heng te hian enkawl tur ani: carbaryl 0.2  |
|                   | S            |                         | percent emaw malathion 0.15 percent  |
|                   |              |                         | suspension containing sugar or jeggery at  |
|                   | 1            |                         | 10 g/l.  |
| PLANTATION CR     |              | LUISGEEZ                |  |
| COFFEE            | All stages   | (TOPOD SPOTS)           | Nursery stage  |
|                   | 1            | 0.00                    | + Thlai chi thlak hma in <i>Azospirillum</i> leh                                     |
|                   | 5            | n (~~                   | Phosphobacterium a enkawl tur ani.   |
|                   |              | 1                       | A chi hi December – January ah hmun  |
|                   |              | Mar and                 | zawl/rualrem 1.5 - 2.5 cm a in hlatin  |
|                   |              |                         | tlar mumal tak siam in chin tur ani.   |
|                   | 1            | 55 7                    | + Chuan a chi chu lei tlem te a chhilh a   |
|                   |              |                         | buhpawla khuh tur ani.   |
|                   |              | LAWNGTLAL               | nan niin a chhun loh nan zar hliah tur   |
|                   |              | - SAIHA                 | ani.   |
|                   |              |                         | $\stackrel{\text{and}}{=}$ Ni 45 hnu velah a tiak thin a,chu chu                     |
|                   |              |                         | bag ah an sawn chhuak leh thin ani.  |
|                   | l            | 2810                    | and an out of thirday for third all.   |
|                   |              | V V A                   | 2   P a g e  |
|                   |              | -                       | 2   1 age  |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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 |                                   | - A          | <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  | 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> |
| VEGETABLE CRO<br>Tomato   | OP<br>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 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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|   |                                   | VIL C        | 4   P a g e  |



ICAR RESEARCH COMPLEX FOR NEH REGION



| Onion and            | Numoor        | KOLASIB               | <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 @ 2gm ah tui leter 1 pawlha kah tur ani.</li> <li>A than a that theih nan nikhat danah</li> </ul>  |
|----------------------|---------------|-----------------------|---|
| capsicum             | Nursery stage | Poly house            | <ul> <li>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 to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha 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  |                       | <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</li> </ul> |
|                      |               | PN 2                  | )   |
|                      |               |                       | 5   P a g e   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| 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> |
|              | AMAINIT              | Porcine<br>Reproductive<br>Respiratory<br>Syndrome<br>(PRRS). | <ol> <li>Vawknote emaw vawk lak hran.</li> <li>CHAMPAL</li> </ol>   |
|              | 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<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.  |
|              | 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.   |
|              |                      | 900   | <b>6</b>   P a g e  |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



|         | 2                                | $\sum$                  | <ul> <li>Tui an in tur chhawpna tur tha /liat tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>   |
|---------|----------------------------------|-------------------------|--|
|         | Preventive                       | 0-3 rd week             | <b>4 Ranikhet</b> Disease- an pian atanga r  |
|         | measures                         | 1217                    | 1-6 ah F1 vaccine pek tur ani a, chua<br>a puitlingh chuan R <sub>2</sub> B vaccine pek tu<br>ani.   |
|         | 1                                |                         | B complex with antibodies  |
|         |                                  | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis-</b> Amprolium o  |
|         | FINAMIT                          |                         | coccidiostat   |
|         | 1 meaning                        | 4-5 <sup>th</sup> Weeks | + Calcium tonic fortified with $B_{12}$  |
| FISHERY | 1                                | ( AIZAWIL )             | CHAMPAI }  |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai l chauh pek thin tur ani. Sangha chaw lo hmuar anih chuan pek hma in ni s a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insear thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a d buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him er tih enfiah fo a tha a, natna hmuh ani chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.</li> </ul> |
|         |                                  | 6 5 1                   | 710  |
|         |                                  |                         | 7   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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | 1  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | l: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 2: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | M  | Meteorological Observer      | evansmeteo@gmail.com              |

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist

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

Bulletin No: - 783/2018/ Bulletin/English

Period: 11 April – 15 April, 2018

Date of issue: 10<sup>th</sup> April, 2018

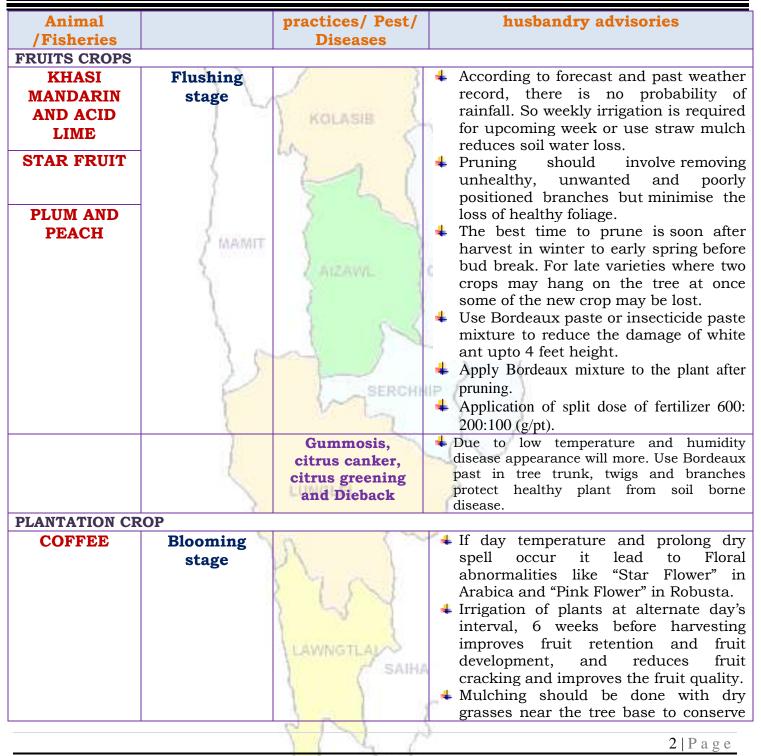
|                      | S 1                                   | ije i   | 1  |                 |                 |  |
|----------------------|---------------------------------------|---|--|-----------------|-----------------|--|
| Parameters           | 11.04.2018                            | 12.04.2018  | 13.04.2018                               | 14.04.2018      | 15.04.2018      |  |
| Rainfall (mm)        | 0                                     | 5   | 3  | 0               | 0               |  |
| Max Temp (°C)        | 30                                    | 30  | 30                                       | 30              | 30              |  |
| Min Temp (°C)        | 14                                    | 14  | 14                                       | 14              | 14              |  |
| Cloud Coverage       | Partially clear                       | Partially clear   | Partially clear                          | Partially clear | Partially clear |  |
| Max RH (%)           | 100                                   | 92  | 89                                       | 90              | 80              |  |
| Min RH (%)           | 39                                    | 45  | 36                                       | 30              | 27              |  |
| Wind Speed (KmpH)    | 2                                     | 2   | 4  | 4               | 4               |  |
| *Wind Direction      | E                                     | E   | E  | E               | E               |  |
| Souther              | rly- <mark>S</mark> , South-          | Easterly- N-E, Eas<br>Westerly- S-W, We   | sterly-W, North                          | -westerly- N-W. |                 |  |
| Aizawl- 8.42 mm      |                                       | 1-31, 2018 (Percent   | of deviation from <b>Saiha</b> - 11.37 m |                 | • 10.51 mm      |  |
| (4.20mm)             | Champh                                | ai- 9.28 mm<br>(5.10mm)   | (3.60m) (3.60m                           |                 | (10.80mm)       |  |
|                      |                                       |   | Mamit-8.21m                              |                 | ip-6.37mm       |  |
| (3.40mm)             | Dungh                                 | (4.10mm)  | (8.30m                                   |                 | (5.20mm)        |  |
| Weather summary      | of the nest                           | Weather forecast valid from 11 <sup>th</sup> April, 2018 To   |  |                 |                 |  |
| three day            | · · · · · · · · · · · · · · · · · · · | 15 <sup>th</sup> April, 2018.   |  |                 |                 |  |
| Maximum Tem. (°C):2  |                                       | 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 (%):87-   |                                       | days may range for 30°C and 14°C. Maximum relative  |  |                 |                 |  |
| Minimum RH (%):48-   |                                       |   |  |                 |                 |  |
| Wind Direction: Sout |                                       | humidity is expected in the range of $80-100\%$ and   |  |                 |                 |  |
| Cloud cover: Mainly  | · · · · · · · · · · · · · · · · · · · | minimum may from 27-45%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially |  |                 |                 |  |
| Wind speed: 2-3 km/  | · · · · · · · · · · · · · · · · · · · | 2   | <b>–</b>                                 | <b>–</b>        | •               |  |
| •                    |                                       | clear sky will prevail during the next five days.   |  |                 |                 |  |
| Rainfall: 25.6 mm    |                                       | Weekly cumulative rainfall: 08.0 mm   |  |                 |                 |  |
|                      |                                       |   |  |                 |                 |  |
| NDVI for Mizoram     |                                       | North East Region 29 Jun 20   | Mildly dry                               | condition oc    | curs in all     |  |
|                      |                                       |   | districts of                             |                 |                 |  |
|                      | <b>C</b> (                            | region,   |  | 1 / 77 1.       | 1/ • •          |  |
| Main Crop/           | Stage                                 | Cultural  | Agricultur                               | al / Horticultu | iral/ animal    |  |
|                      |                                       |   |  |                 | 1   Page        |  |

Phone: +91 3837 220041, Fax: +91 3837 220560, E-mail: kolasib.amfu@gov.in



ICAR RESEARCH COMPLEX FOR NEH REGION







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                                | T.                                 | KOLASIB   | <ul> <li>soil moisture during winter.</li> <li>The young fruit plant must be irrigated at weekly interval for better establishment.</li> <li>Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval.</li> </ul>  |
|--------------------------------|------------------------------------|-----------|--|
| Rubber                         | Vegetative<br>stage                | AIZAWA    | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Farmers can go for tapping upto last week of January.</li> <li>Make fire line around the field to save from fire.</li> <li>Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.</li> </ul>                      |
| Oil plam                       | Vegetative/<br>Harvesting<br>stage |           | <ul> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum</li> </ul> |
|                                |                                    |           | sugar and acid blend.  |
| CEDEALS AND                    |                                    |           |  |
| CEREALS AND<br>Maize<br>(Jhum) | Sowing stage                       | LAWNGTLAL | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for dry.</li> <li>Burn it when it will be dry.</li> </ul>   |
| Maize                          |                                    |           | <ul><li>selected place.</li><li>Keep the plant, leaves and wood for dry.</li></ul>   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|                        |              | ~          | <ul> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> <li>Distance should be maintain 60 cm</li> </ul>   |
|------------------------|--------------|------------|--|
|                        | 15           | KOLASIB    | <ul> <li>From plant to plant.</li> <li>Apply well decomposed FYM/pig manure @ 5-10 t/ha along with</li> </ul>  |
|                        |              | my l       | 80:60:40 kg N, $P_2O_5$ and $K_2O/ha$<br>incorporate with soil before sowing.<br>Half nitrogen dose will use at the time<br>of sowing and remaining 25% after one<br>month and 25% at flowering stage. |
| Rice<br>(Jhum)         | Sowing stage | AIZAWA     | <ul> <li>Remove all weed plant from the selected place.</li> <li>Keep the plant, leaves and wood for</li> </ul>  |
|                        | }            |            | <ul> <li>dry.</li> <li>Burn it when it will be dry.</li> <li>Open a furrow with the help of chimkhawi.</li> <li>Keep 4-5 seeds a hole.</li> </ul>  |
| VEGETABLE CR           | OP OP        | - CERCHIN  | Distance should be maintain 60 cm<br>from plant to plant.  |
|                        |              |            | <b>4</b> Rhizome should be treated with Thiram   |
| Ginger and<br>turmeric | Sowing stage | ~          | <ul> <li>@4 g/kg seed.</li> <li>Use optimum seed rate (50-60 kg/ha) for desire plant population.</li> </ul>  |
|                        | 2            |            | 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 before sowing.                      |
|                        | - 11         | Mr.        | Half nitrogen dose will use at the time<br>of sowing and remaining 25% after one<br>month and 25% at flowering stage.  |
| Onion                  | Bulb         | Poly house | + Provide irrigation every alternate day   |
|                        | formation    |            | due to non availability of rain.   |
|                        | stage        | LAWNGTLAN  | Intercultural operations should be<br>done regularly to keep the crop free   |
|                        |              | SAIHA      | from weeds and better growth of bulb.  |
|                        |              |            | <ul> <li>Remaining quantity of nitrogen is applied 30-40 days after transplanting.</li> </ul>  |
| L                      | 1            | N N N      | applied oo to dayo alter transplaiting.  |
|                        |              |            | 4   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|          | 5                                   | $\wedge$   | <ul> <li>Provide irrigation if water is require.</li> <li>Low temperature and high humidity influence the population of onion trips.</li> <li>Apply any systemic insecticide 1.5 ml/lt of water.</li> </ul>  |
|----------|-------------------------------------|------------|--|
| Capsicum | Flowering to<br>fruiting stage      | Poly house | <ul> <li>Intercultural operations should be done<br/>regularly to keep the crop free from<br/>weeds and aeration of the root system.</li> <li>Harvest all mature fruits.</li> <li>Provide irrigation if water is require.</li> <li>Apply any systemic insecticide to<br/>reduce damage of chilli thrips.</li> </ul>  |
| Brinjal  | Fruiting to<br>flowering<br>stage   | AIZAVA     | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Fruit and shoot borer attack will mare in dry method.</li> </ul>                                      |
| Chilli   | Vegetative to<br>flowering<br>stage | LUNGLEI    | <ul> <li>According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss.</li> <li>Harvest all mature fruits.</li> <li>Apply split dose of nitrogenous fertilizer to the plant.</li> <li>Mature fruit should be harvested and</li> <li>In large gardens apply carbaryl 0.2 per cent</li> </ul> |
|          |                                     | LAWNGTLAL  | or malathion 0.15 per cent suspension<br>containing sugar or jeggery at 10 g/l at  |
| Potato   | Harvesting                          | 221        | If the leaves and plant became dry it means plant ready for harvesting.  |
|          |                                     | 1 CL       | 5   P a g e  |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|               | stage         |  | 4       | Open the furrow with the help of                 |
|---------------|---------------|--|---------|--|
|               | 0             |  |         | spade, harvest all mature tubers.                |
|               |               |  | 4       | Discard all mother tubers from                   |
|               |               |  |         | harvested potato tubers.                         |
|               | 21            | 1 5  | 4       | Keep 7 -10 days for drying or reduce             |
|               |               | 0  | -       | the moisture level in shed dry.                  |
|               |               | KOLASIE  |         | Keep 25% seed for next season sowing.            |
| <b>0</b>      | O             | 1  |         |  |
| Cowpea        | Sowing stage  | La l   | +       | Plough the field properly, at least 2-3          |
|               | (             | 1 0 1  |         | times.   |
|               | 2             |  | -       | Mix fertilizer with FYM 50:60:60Kg               |
|               | 1             | 2 5  |         | /ha.   |
|               |               | $P \ge A$  | +       | Sow 2-3 seed per whole.                          |
|               | 1             |  | -       | Spacing should be 30 X 20 cm.                    |
| Okra          | Sowing stage  | X 2  | +       | Plough the field with the help of spade.         |
|               | S             | LARZAWL I  | ÷.      | Sow 2 seed 45 X 45 cm spacing.                   |
|               | 1             | Concerne 1   | 4       | Before sowing seed provide one or two            |
|               |               | 5 5  |         | irrigation.                                      |
|               | 1             | 5  | -       | Provide fertilizer @ 120: 60: 60 Kg/ha           |
| ANIMAL HUSBEN | IDARY         | · · · · · · · · · · · · · · · · · · ·  |         | · · · · · · · · · · · · · · · · · · ·            |
| Pig           | All stages    | ~ ~ ~ ~ ~  | -       | Animals must keep in dry place or                |
| 0             | 105           |  |         | kept in alleviated area and dry bedding          |
|               | 0             | STROUGH STR  | i en se | (straw) to be provided to young                  |
|               |               | SERCHN   | 11- (   | animals.   |
|               | 5             |  | - 📣     | 1 <sup>st</sup> injection at 6 months of age and |
|               | 5             |  |         | 2nd injection at 12 months of age                |
|               |               |  | 1       | followed by annual vaccination under             |
|               | 1             |  | -       | vet supervision against FMD.                     |
|               |               | LUNGLEI  | 4       | Reduce concentrate diet up to 5%.                |
|               | 2             | Period States and Stat | 4       | Provide adequate potable water.                  |
|               | 1             |  | 4       | In present weather conditions                    |
|               | L.            |  | 1       | vaccinate against swine fever (Vaccines          |
|               |               | 11   | 11      | available in State Veterinary Departs)           |
|               |               | Porcine  | 1       | . Culling of positive pigs or piglets.           |
|               |               | Reproductive   | 0       | . coming of positive pige of pigicts.            |
|               |               | Respiratory  | 1       |  |
|               |               | Syndrome (PRRS).   | 2       |  |
| Cattle        | A11 ago group | A COMPANY AND A COMPANY AND A COMPANY AND A COMPANY  |         | In present weather conditions, special           |
| Calle         | All age group | LAWNGTLAL  |         | care should be taken against attack of           |
|               |               | / SAIHA  |         |  |
|               |               |  | 1       | maggots in the wounds of animals.                |
|               |               |  | 1       | Application of turpentine oil in the             |
|               |               | ARI  |         | wounds followed by application of                |
|               |               | VIV A  |         | <b>6</b>   P a g e                               |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| Poultry  | All age group | KOLASIB   | <ul> <li>antibiotics for five days is advised.</li> <li>Provide UMB/Molases if possible in the feed</li> <li>Provide 10-30 ml of vitamin B-Complex in feed</li> <li>1<sup>st</sup> injection at 6-8 weeks of age, 2nd injection after 6 months of 1<sup>st</sup> injection followed by annual vaccination under vet supervision.</li> <li>Separate sick animals.</li> <li>The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves.</li> <li>Long hair near the udder/stomach/back legs should be teamed short.</li> <li>Provide preventive dose of anti-coccidial drugs to poultry.</li> <li>Proper ventilation of shed.</li> <li>Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water</li> <li>Avoid overcrowding.</li> <li>Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses.</li> <li>Vaccination as per the schedule with</li> </ul> |
|----------|---------------|-----------|---|
| Poultry  | All age group |           | <b>4</b> Provide preventive dose of anti-coccidial  |
| Foultry  | An age group  | 6 3       |   |
|          |               | 1 all     |   |
|          |               |           | - //  |
|          | 3.0           |           |   |
|          | 11            |           | •••••••••••••••••••••••••••••••••••••••   |
|          |               | SERCHN    |   |
|          | 1             | V La      |   |
|          | 5             |           |   |
|          | 1             |           |   |
|          | 1             |           |   |
|          |               | LUNGLEI   | proper consultation with vet.   |
|          | 2             |           | Day old chick: HVT Marek disease  |
|          | 1             | 0.0       | vaccine, 4-7 days:¬ F/Lasota, 14-18   |
|          | 5             | n (~~     | days: Intermediate plus/IBD   |
|          |               |           | vaccine, 35 days: F/Lasota, 6-7   |
|          |               | ( M AL)   | weeks: Chicken embryo adopted   |
|          |               |           | fowl pox vaccine and 56-70 days:  |
|          |               | 2 -3 1    | RD R-2B strain.   |
| BIAIIBEI |               |           | 4 Remove wet litter.  |
| FISHERY  |               | LAWNGTLAL |   |
|          | Monitoring of | ) / SAIHA | 4 Care should be taken that fish are fed  |
|          | fish in pond  |           | with feed that are free from fungus. If   |
|          |               | 1         | the fungal growth is observed in fish   |
|          |               | N N       | feed, the feed needs to be sundried for   |
|          |               |           | 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)



few days prior to feeding. **4** Fish feed should be stored in cool and dry place to av 🔸 oid fungal growth that releases aflatoxin which could lead to mortality of fish. KOLASIB Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom. applying lime, manure, fertilizers etc. Fish needs to be monitored regularly to observe any sign of diseases and if MAMIT disease is observed, consult expert immediately and water sample needs to be analyzed. **4** Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality. LAWNGTLA SAIHA 8 | Page



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



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 5: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 1  | Meteorological Observer      | evansmeteo@gmail.com              |

#### **Collaborating Department:**

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

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

| Bulletin | <b>No:</b> - | 783, | /2018/ | Bulletin | /Mizo |
|----------|--------------|------|--------|----------|-------|
|          |              |      |        |          | 10    |

#### Period: 11 April - 15 April, 2018

#### Date of issue: 10<sup>th</sup> April, 2018

|   |   | $\mathbb{R}^{2}$                | 4.1   |   |  |
|---|---|---------------------------------|---|---|--|
| Parameters  | 11.04.2018                                  |                                 | 13.04.2018  | 14.04.2018  | 15.04.2018   |
| Rainfall (mm)   | 0   | 5                               | 3   | 0   | 0  |
| Max Temp (°C)   | 30  | 30                              | 30  | 30  | 30   |
| Min Temp (°C)   | 14  | 14                              | 14  | 14  | 14   |
| Cloud Coverage  | Partially clear                             | Partially clear                 | Partially clear   | Partially clear   | Partially clear  |
| Max RH (%)  | 100   | 92                              | 89  | 90  | 80   |
| Min RH (%)  | 39  | 45                              | 36  | 30  | 27   |
| Wind Speed (KmpH)   | 2   | 2                               | 4   | 4   | 4  |
| *Wind Direction   | E   | E                               | E   | E   | E  |
|   |   | Easterly- N-E, Easterly-        |   |   |  |
|   |   | Westerly- <mark>S-W</mark> , We |   |   |  |
|   |   | 1-31, 2018 (Percent             |   |   |  |
| Aizawl- 8.42 mm   | Champh                                      |                                 | Saiha- 11.37 m  |   | b- 10.51 mm  |
| (4.20mm)  |   | (5.10mm)                        | (3.60m  |   | (10.80mm)  |
| Lawngtlai-7.84mm  | Lungle                                      | ei-6.35mm                       | Mamit-8.21m   |   | hip-6.37mm   |
| (3.40mm)  |   | (4.10mm)                        | (8.30m  |   | (5.20mm)   |
| Weather summary   | -   | 11 <sup>th</sup> April – 1      | .5 <sup>th</sup> April, 20  | 18 chhung   | a sik leh sa   |
| three day   | S   | (                               | dinhmun tu  | r tlangpui  |  |
| Maximum Tem. (°C):2<br>Minimum Tem. (°C):1<br>Maximum RH (%):87-<br>Minimum RH (%):48-3<br>Wind Direction: South<br>Cloud cover: Mainly of<br>Wind speed: 2-3 km/1<br>Rainfall: 25.6 mm | 5-16°C<br>98%<br>56%<br>heasterly<br>cloudy |                                 | Khua a lum l<br>14ºC ni tura b<br>nniam lai berin<br>hatah 2-4 km<br>rin a ni. A tla<br>g tak hmuh bei<br><b>y cumulative</b> | ai berin 30°C<br>beisei a ni. RH<br>n 27-45% ni<br>vela chakin<br>ngpuiin tun r<br>sei a ni.<br><b>rainfall: 08.0</b> | a ni ang a. A<br>I san lai berin<br>tur a rin niin.<br>chhaklam awi<br>ni nga chhung<br><b>Dmm</b> |
| NDVI for Mizoram  |   | North Last Nagon 31 far         | Moderately<br>conditions  | wet mildly o  | lry/mildly wet   |
|   |   | VIL                             | 19  |   | 1   Page   |



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

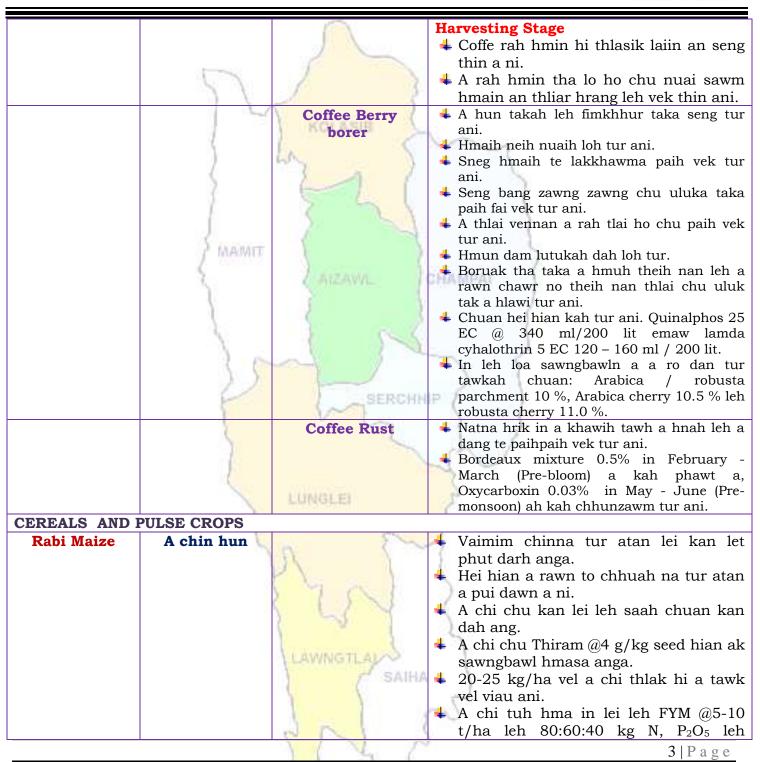


| Main Crop/        | Stage        | Cultural                | Agricultural / Horticultural/ animal  |
|-------------------|--------------|-------------------------|---|
| Animal            |              | practices/ Pest/        | husbandry advisories  |
| /Fisheries        |              | Diseases                |   |
| FRUITS CROPS      |              | I                       | I   |
| KHASI             | A kui atanga | 2 8                     | 4 Thlasik laia thlai bul khoro lutuk tur  |
| MANDARIN          | a seng hun   | KOLASIB                 | vennan chuan hnim hnah hring tlai bul   |
| AND ACID          |              | I NULMOID 2             | velah dahkhawm tur ani.   |
| LIME              | )            | La N                    | 4 Thlai naupang deuah chuan chawlh  |
|                   | (            | 3 4 1                   | kar tin a tui pek thin tur ani.   |
| BANANA            | 2            |                         | 4 Leia tha mamawh tawk a hmuh   |
|                   | 1            | 2 5                     | theihna turin a hmunhma a hnim awm  |
|                   |              |                         | te thlawhfai thin tur ani.  |
| STAR FRUIT        | AMAMIT       |                         | <b>4</b> A seng hma kar 6 chhung chu tui tha  |
|                   | 1 meaning    | 5 (                     | taka pek hian a rah tla tur chelh nan   |
| PLUM AND          | 2            | ATZAWIL /               | leh a rah than that nan te leh a rah  |
| PLOM AND<br>PEACH |              |                         | keh tur lakah t a veng thei ani.  |
| PEACH             |              | 0                       | Towns autom hair a later late har some some   |
|                   |              | Gummosis, citrus        | Temperture hniam lutuk leh hnawng vang<br>hian natna a a tam duh a . Soil bome natna                |
|                   | 1 1          | canker, citrus          | laka vennan Bordeaux past hi thing zar leh  |
|                   | 60           | greening and<br>Dieback | a trangah te hnawih tur ani.  |
|                   |              | Fruit fly               | Huan zau takah chuan a par tan tirh leh a   |
|                   |              | FILLE ILYERCHN          | rah tan tirin chawlhkar hnih chhung chu   |
|                   | 1            | Y Lan                   | heng te hian enkawl tur ani: carbaryl 0.2   |
|                   | 5            |                         | percent emaw malathion 0.15 percent   |
|                   | 1            |                         | suspension containing sugar or jeggery at   |
|                   | 1            |                         | 10 g/l.   |
| PLANTATION CR     |              | LUNGLEI                 |   |
| COFFEE            | All stages   |                         | Nursery stage   |
|                   | 1            | 0                       | + Thlai chi thlak hma in Azospirillum leh   |
|                   |              | n (~                    | <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   |
|                   |              | M Red                   | tlar mumal tak siam in chin tur ani.  |
|                   |              |                         | + Chuan a chi chu lei tlem te a chhilh a  |
|                   |              | 1 -2 1                  | buhpawla khuh tur ani.  |
|                   |              |                         | <b>4</b> Nitin tui pek tur ani a, a sat lutuka loh  |
|                   |              | LAWNGTLAL               | nan niin a chhun loh nan zar hliah tur  |
|                   |              | / SAIHA                 | ani.  |
|                   |              | 1 1                     | <b>4</b> Ni 45 hnu velah a tiak thin a,chu chu  |
|                   |              |                         | bag ah an sawn chhuak leh thin ani.   |
|                   |              | N N S                   |   |
|                   |              | 11 L                    | 2   P a g e   |



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







**ICAR RESEARCH COMPLEX FOR NEH REGION** 



|  | 2                           | $\bigwedge$      | $K_2O/ha$ 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<br>SERCHH | <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 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>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn</li> </ul>   |
|  |                             | N N N            | 4   P a g e  |



ICAR RESEARCH COMPLEX FOR NEH REGION



| Onion and     Nursery stage     Poly house     4     A                         | wm thin a , hei hi natna tlanglawn<br>er ani.<br>hlai hna lam chi leh zikhlum lam<br>hi reng reng enkawl nan Mancozeb<br>) 2gm ah tui leter 1 pawlha kah<br>ur ani.   |
|--|---|
|  |   |
| MAMIT A MARKET   | than a that theih nan nikhat danah<br>ai pek thin tur ani.<br>hlai bul vawn hnawn nana thlai bula<br>nim ring vawm khawm hi tui pek<br>awhah dah tur ani.<br>hlai chhina hmun (nursery) hi hnim a<br>b loh nan Pendimethalin @ 3.5ml hi<br>ai liter 1 zelah pawlh a kah hi a tha<br>le ani. |
| blight er<br>(A<br>+ Hi<br>er<br>ox  | chi ven that nan thiram 3g/kg seed<br>maw Trichoderma viride 4g+ metalaxyl 4g<br>Apron)/ kg seed hi a tha hle ani<br>Ineh taka 1% Bordeaux chawhpawlh<br>maw 2 g captan emaw 3 copper<br>xychloride a tui liter 1 hi 10-15 DAS a<br>ek hi a tha hle ani.                                    |
| a.<br>in<br>4 A 1<br>na  | ai pek a hnihnah hringa khuh tur ani<br>than a that theih nan tui pek hma<br>lei rin pan hmasak tur ani.<br>than duna theih nan leh hnim to loh<br>a turin a kung bulah lei vur chhoh zel<br>r ani.   |
| radish tu<br>4 Tu<br>1 Tu<br>1 Tu<br>1 Tu<br>1 Tu<br>1 Tu<br>1 Tu<br>1 Tu<br>1 | than a that theih nan nikhat danah<br>ui pek thin tur ani.<br>ui pek hnuah thlai bul vawn hnawn<br>a tur siam tur ani.<br>ikhlum lam chi ah chuan sik leh<br>a vangin a hnah ah thil dum a<br>awn awm thina, hei hi natna<br>anglawn ber ani.<br>'hlai hna lam chi leh zikhlum lam          |
|  | hi reng reng enkawl nan<br>Mancozeb @ 2gm ah tui leter 1<br>wawlha kah tur ani.   |



**ICAR RESEARCH COMPLEX FOR NEH REGION** 



| ANIMAL HUSBE | ENDARY               |   |   |
|--------------|----------------------|---|---|
| Pig          | All stages           | KOLASIB   | <ul> <li>Khua a vawh hian vawk hian an mahning in tih lumna tur atan chakna an mamawhna a sang bik ani.</li> <li>An hriselna that leh that loh enfiahrenga, 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 hleani.</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<br>bawngin an chaw ei in buk tawk tur<br>leh an taksa tana mamawh tur atar<br>buh kung urea molasses hmanga<br>sawngbawl pek tur ani.  |
|              | 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>   |
|              |                      | N N N   |   |



#### ICAR RESEARCH COMPLEX FOR NEH REGION



|         | 2                                | $\sum$                  | <ul> <li>Tui an in tur chhawpna tur tha /lia tha tak leh tui thianghlim tak pek tu ani.</li> <li>Chaw a hmuar/thing pek loh tur ani a an chaw eitur thlak sak thut loh tu ani.</li> </ul>  |
|---------|----------------------------------|-------------------------|--|
|         | Preventive                       | 0-3 rd week             | <b>4 Ranikhet</b> Disease- an pian atanga r  |
|         | measures                         | ~ ?                     | 1-6 ah F1 vaccine pek tur ani a, chua<br>a puitlingh chuan R <sub>2</sub> B vaccine pek tu<br>ani.   |
|         |                                  |                         | B complex with antibodies  |
|         |                                  | 4 <sup>th</sup> weeks   | <b>4 Coccidiosis</b> - Amprolium o   |
|         | FINAMIT                          |                         | coccidiostat   |
|         | 2. 00850303                      | 4-5 <sup>th</sup> Weeks | 4 Calcium tonic fortified with B <sub>12</sub>   |
| FISHERY | 5                                | ANZAWIL                 | CHAMPAL  |
|         | Monitoring<br>(Sangha<br>enkawl) |                         | <ul> <li>Sangha te hi chaw a hmuar kai l chauh pek thin tur ani. Sangha chaw lo hmuar anih chuan pek hma in ni s a phoro phawt tur ani.</li> <li>Sangha chaw hi a hmuar lohna turi hmun ro leh uap lutuk lo ah dahtha tur ani a, hmuar atang a tur lo insear thin, aflatoxin avang a sangha thi la atangin sangha a him phah thin.</li> <li>Dil sah kang veka sangha man thi hian a kumleh a sangha khawinan a d buatsaih a ti awlsam a, dil mawn phoro, chinai phul, leitha hman leh tu dang in dil buatsaih tur ani.</li> <li>Sangha te natna lak atangin an him er tih enfiah fo a tha a, natna hmuh ani chuan mithiam te rawn vat a, diltu enfiah vat tur ani.</li> <li>A ranglam a chinai @50kg/ha le tuisen @1.5mg/l diltui a hman hia sangha natna avang a thi tur la atangin a veng thei.</li> </ul> |
|         |                                  | 6 N 2                   |  |
|         |                                  | 1 4 6                   | 7   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)



#### **Expert committee members:**

| Dr. S.B. Singh          | :  | Joint Director               | basantasinghsoibam@rediffmail.com |
|-------------------------|----|------------------------------|-----------------------------------|
| Dr. Saurav Saha         | N: | Scientist (Agril. Physics)   | sauravs.saha@gmail.com            |
| Dr. T. Boopathi         | :  | Scientist (Agril Entomology) | boopathiars@gmail.com             |
| Dr. A. Ratankumar Singh | :  | Scientist (Plant Pathology)  | ratanplantpatho@gmail.com         |
| Dr. Lungmuana           | :  | Scientist (Soil Fertility)   | lmsingson@gmail.com               |
| Mr. P.L. Lalrinsanga    | 1: | Scientist (Aquaculture)      | viensky2@gmail.com                |
| Dr. Dr. V. Dayal        | 1: | Scientist (Horticulture)     | Vishambhai5009@gmail.com          |
| Dr. Samuel Lalliansanga | :  | Head & Sr. Scientist         | samuelpachuau10@gmail.com         |
| Mr. Samik Chowdhury     | :  | Technical Officer            | samikchowdhury33@gmail.com        |
| Mr. Evans Syiem         | 64 | Meteorological Observer      | evansmeteo@gmail.com              |

#### Collaborating Department:

#### Name of the **Programme Coordinator KVK Email Id** Phone no/ KVK Name and Designation Mobile no Dr. Lalmuanzovi kvkhnahthial@gmail.com 9862803750 **KVK** Lunglei : Head & Sr. Scientist 9436154614 KVK, Kolasib Mr. Lalrosamga Khiangte kvkkolasib@gmail.com 9436152440 : Head & Sr. Scientist Mr. K. Laltlanmawia kvkserchhip@gmail.com KVK, Serchhip 9436146115 1 Head & Sr. Scientist 9615389293 Mrs. Lalrinawmi Renthlei kvkkhawzawl@gmail.com KVK, Champhai 9436159788 : Head & Sr. Scientist KVK, Lawngtlai Dr. Michel Lallawmkimi kvklawntlai@gmail.com 9436155858 : Head & Sr. Scientist Dr. Vanlalhruaia Hnampe KVK, Saiha kvksaiha@gmail.com 8974656509 : Head & Sr. Scientist KVK, Mamit : Dr. Samuel Lalliansanga kvkmamit@gmail.com 9436147625 Head & Sr. Scientist Kpchy@rediffmail.com KVK, Aizawl Dr. K. P. Chaudhary 9436351669 : kvkaizawl@rediffmail.com Head & Sr. Scientist



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