# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Lunglei **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 4 | 0 | 6 |
| Max Temp (ºC) | 36 | 35 | 33 | 35 | 32 |
| Min Temp (ºC) | 22 | 22 | 22 | 23 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Partially clear | Clear sky | Partially clear |
| Max RH (%) | 80 | 88 | 95 | 97 | 99 |
| Min RH (%) | 27 | 30 | 34 | 34 | 39 |
| Wind Speed (KmpH) | 2 | 4 | 2 | 2 | 2 |
| *Wind Direction | E | S-E | S | E | S-E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):**25-28ºC
**Minimum Tem. (ºC):**16-20ºC
**Maximum RH (%):**83-99%
**Minimum RH (%):**48-81%
**Wind Direction:** Southwesterly
**Cloud cover:** Mainly clear
**Wind Speed:** 2-4 km/hr

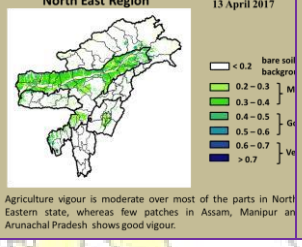
**Rainfall:** 00.0 mm

### Weather forecast valid from 06th May, 2017 To 10thMay, 2017.

There are chances of rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 32-36ºC and 22-23ºC. Maximum relative humidity is expected in the range of 80-99% and minimum may from 27-39%. Wind direction would be easterly to southeasterly and southerly to easterly and southeasterly with the wind speed of 2-4 km per hour. Mainly clear sky will prevail during the next five days.

***Weekly cumulative rainfall:*** **10.0 mm**

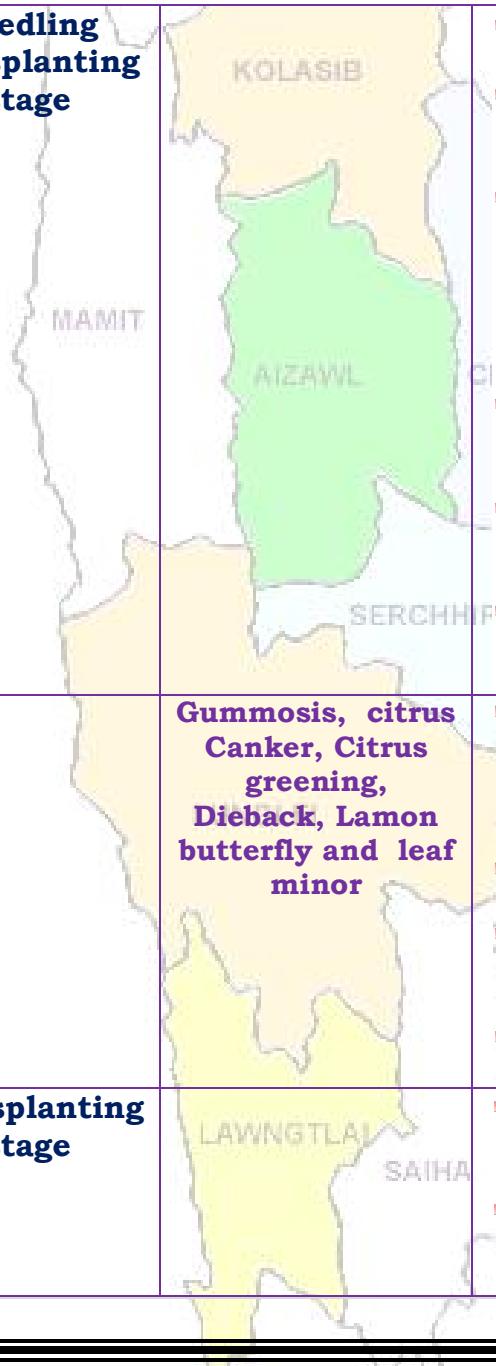
### NDVI for Mizoram




Moderately wet mildly dry/mildly wet conditions



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |



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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ▪ Clearing operation may be done during the month of February to April.<br>▪ Make fire line to protect the young tree and seedlings.<br>▪ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ▪ Water level shall be maintained for better transplant.<br>▪ Plough the field two to three times.<br>▪ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>▪ Transplant 2-3 seedlings in one place for avoid gap filling.<br>▪ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>▪ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss |




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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |  | ▪ Harvest all mature cobs from the plant.<br>▪ Keep the cob for sun dry, so moisture level will be maintain.<br>▪ Thresh the seeds from cob and keep for drying.<br>▪ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |  | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |  | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |  | ▪ Rhizome should be treated with Thiram @4 g/kg seed.<br>▪ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>▪ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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| | | | |
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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✓ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✓ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✓ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✓ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✓ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✓ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✓ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

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

**District:** Lunglei **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 4 | 0 | 6 |
| Max Temp (ºC) | 36 | 35 | 33 | 35 | 32 |
| Min Temp (ºC) | 22 | 22 | 22 | 23 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Partially clear | Clear sky | Partially clear |
| Max RH (%) | 80 | 88 | 95 | 97 | 99 |
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| Wind Speed (KmpH) | 2 | 4 | 2 | 2 | 2 |
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**Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.**

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

| | | | |
|---|---|---|---|
| Aizawl- 384.87mm (430.2mm) | Champhai- 105.48mm (359.89mm) | Saiha- 307.40 mm (507.7mm) | Kolasib- 236.00mm (428.1mm) |
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### Weather summary of the past three days

**Maximum Tem. (ºC):**25-28ºC
**Minimum Tem. (ºC):**16-20ºC
**Maximum RH (%):**83-99%
**Minimum RH (%):**48-81%
**Wind Direction:** Southwesterly
**Cloud cover:** Mainly clear
**Wind Speed:** 2-4 km/hr

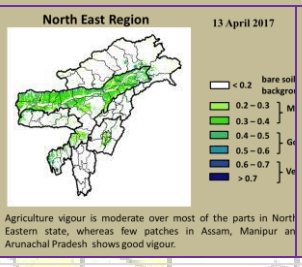
**Rainfall:** 00.0 mm

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-36ºC a ni ang a. A vawh lai ber in 22-23ºC ni tura beisei a ni. RH san lai berin 80-99% leh a hniam lai berin 27-39% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **10.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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|---|---|---|---|
| | | | **Harvesting Stage**<br>- Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>- A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | - A hun takah leh fimkhhur taka seng tur ani.<br>- Hmaih neih nuaih loh tur ani.<br>- Sneg hmaih te lakkhawma paih vek tur ani.<br>- Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>- A thlai vennan a rah tlai ho chu paih vek tur ani.<br>- Hmun dam lutukah dah loh tur.<br>- Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>- Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>- In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | - Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>- Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | - Vaimim chinna tur atan lei kan let phut darh anga.<br>- Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>- A chi chu kan lei leh saah chuan kan dah ang.<br>- A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>- 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>- A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
|---|---|---|---|
| **Pig** | **All stages** | | ❖ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>❖ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>❖ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ❖ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>❖ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Mamit **Period:** 06 May – 10 May, 2017

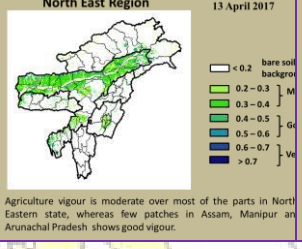
**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 4 | 12 | 11 | 15 |
| Max Temp (ºC) | 31 | 30 | 30 | 28 | 28 |
| Min Temp (ºC) | 21 | 22 | 22 | 23 | 23 |
| Cloud Coverage | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 81 | 93 | 97 | 98 | 97 |
| Min RH (%) | 38 | 36 | 49 | 43 | 49 |
| Wind Speed (KmpH) | 4 | 4 | 5 | 4 | 4 |
| *Wind Direction | S-E | S-E | S-E | S-E | S-E |

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

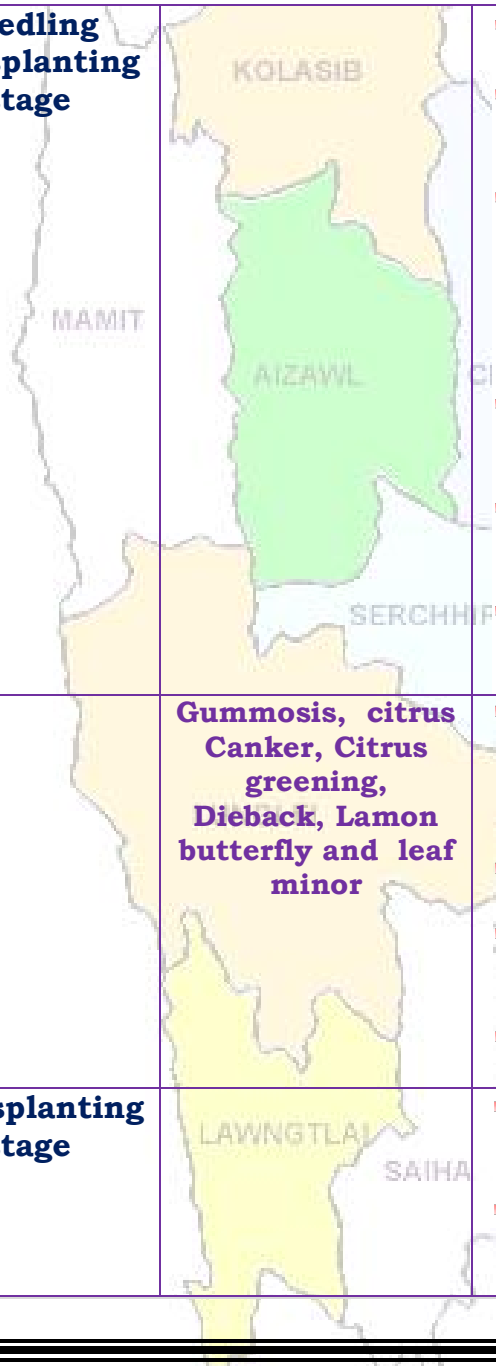
**STATUS OF MONSOON- June 1-30, 2016 (*Percent of deviation from normal in parenthesis*)**

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

| Weather summary of the past three days | Weather forecast valid from 06th May, 2017 To 10thMay, 2017. |
|---|---|
| **Maximum Tem. (ºC):**29-31ºC<br>**Minimum Tem. (ºC):**17-20ºC<br>**Maximum RH (%):**89-98%<br>**Minimum RH (%):**52-75%<br>**Wind Direction:** southeasterly<br>**Cloud cover:** Mainly clear<br>**Wind speed:** 2-3 km/hr<br><br>**Rainfall:** 02.3 mm | There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 28-31ºC and 21-23ºC. Maximum relative humidity is expected in the range of 81-98% and minimum may from 36-49%. Wind direction would be southeasterly with the wind speed of 4-5 km per hour. Partially clear will prevail during the next five days.<br><br>***Weekly cumulative rainfall:*** **42.0 mm** |
| **NDVI for Mizoram** |  <br>Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.<br><br>Moderately wet mildly dry/mildly wet conditions |



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ↓ Clearing operation may be done during the month of February to April.<br>↓ Make fire line to protect the young tree and seedlings.<br>↓ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ↓ Water level shall be maintained for better transplant.<br>↓ Plough the field two to three times.<br>↓ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>↓ Transplant 2-3 seedlings in one place for avoid gap filling.<br>↓ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>↓ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ Earthing up soil for better growth and stability in root zone.<br>↓ Use split dose of any nitrogenous fertilizer for better growth.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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

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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |  | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |  | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✦ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Mamit **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
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| Max Temp (ºC) | 31 | 30 | 30 | 28 | 28 |
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| Cloud Coverage | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 81 | 93 | 97 | 98 | 97 |
| Min RH (%) | 38 | 36 | 49 | 43 | 49 |
| Wind Speed (KmpH) | 4 | 4 | 5 | 4 | 4 |
| *Wind Direction | S-E | S-E | S-E | S-E | S-E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):29-31ºC**
**Minimum Tem. (ºC):17-20ºC**
**Maximum RH (%):89-98%**
**Minimum RH (%):52-75%**
**Wind Direction: southeasterly**
**Cloud cover: Mainly clear**
**Wind speed: 2-3 km/hr**

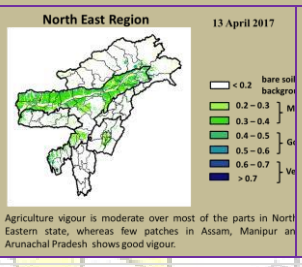
**Rainfall: 02.3 mm**

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-31ºC a ni ang a. A vawh lai ber in 21-23ºC ni tura beisei a ni. RH san lai berin 81-98% leh a hniam lai berin 36-49% ni tur a rin niin. Thli hi darkar khatah 4-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **42.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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| | | | **Harvesting Stage**<br>Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | A hun takah leh fimkhhur taka seng tur ani.<br>Hmaih neih nuaih loh tur ani.<br>Sneg hmaih te lakkhawma paih vek tur ani.<br>Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>A thlai vennan a rah tlai ho chu paih vek tur ani.<br>Hmun dam lutukah dah loh tur.<br>Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | Vaimim chinna tur atan lei kan let phut darh anga.<br>Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>A chi chu kan lei leh saah chuan kan dah ang.<br>A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |




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

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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
|---|---|---|---|
| **Pig** | **All stages** | | ❖ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>❖ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>❖ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ❖ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>❖ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Saiha **Period:** 06 May – 10 May, 2017

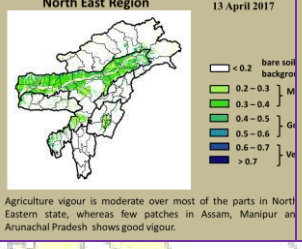
**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 3 |
| Max Temp (ºC) | 35 | 34 | 34 | 34 | 32 |
| Min Temp (ºC) | 22 | 21 | 21 | 22 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Partially clear |
| Max RH (%) | 78 | 84 | 90 | 93 | 98 |
| Min RH (%) | 22 | 24 | 30 | 29 | 33 |
| Wind Speed (KmpH) | 2 | 2 | 2 | 2 | 2 |
| *Wind Direction | E | E | E | E | E |

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

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

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

| Weather summary of the past three days | Weather forecast valid from 06th May, 2017 To 10thMay, 2017. |
|---|---|
| **Maximum Tem. (ºC):**24-27ºC<br>**Minimum Tem. (ºC):**16-18ºC<br>**Maximum RH (%):**76-98%<br>**Minimum RH (%):**48-85%<br>**Wind Direction:** Southeasterly<br>**Cloud cover:** Mainly clear<br>**Wind Speed:** 2-4 km/hr<br><br>**Rainfall:** 00.0 mm | There is no chance of rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 32-35ºC and 21-23ºC. Maximum relative humidity is expected in the range of 78-98% and minimum may from 22-33%. Wind direction would easterly with the wind speed of 2 km per hour. Mainly clear sky will prevail during the next five days.<br><br>***Weekly cumulative rainfall:*** **03.0 mm** |
| **NDVI for Mizoram** |  <br>Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour. |
| | Moderately wet mildly dry/mildly wet conditions |



**Phone: +91 3837 220041, Fax: +91 3837 220560,**
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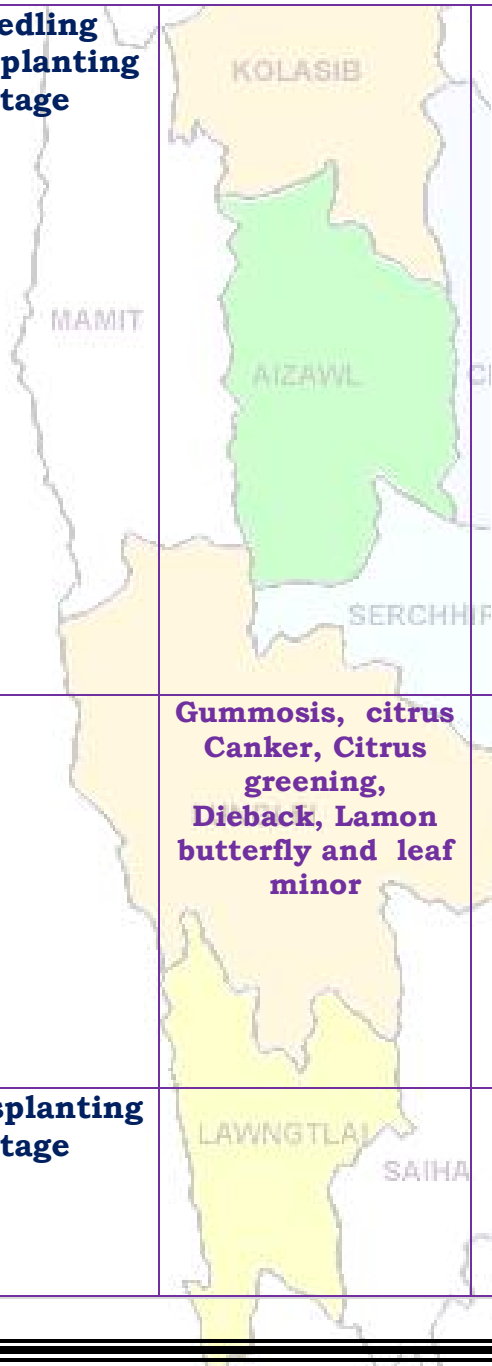
| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ▪ Clearing operation may be done during the month of February to April.<br>▪ Make fire line to protect the young tree and seedlings.<br>▪ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ▪ Water level shall be maintained for better transplant.<br>▪ Plough the field two to three times.<br>▪ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>▪ Transplant 2-3 seedlings in one place for avoid gap filling.<br>▪ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>▪ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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

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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |   | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |   | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✦ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Saiha **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 3 |
| Max Temp (ºC) | 35 | 34 | 34 | 34 | 32 |
| Min Temp (ºC) | 22 | 21 | 21 | 22 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Partially clear |
| Max RH (%) | 78 | 84 | 90 | 93 | 98 |
| Min RH (%) | 22 | 24 | 30 | 29 | 33 |
| Wind Speed (KmpH) | 2 | 2 | 2 | 2 | 2 |
| *Wind Direction | E | E | E | E | E |

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

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

Aizawl- 384.87mm (430.2mm) | Champhai- 105.48mm (359.89mm) | Saiha- 307.40 mm (507.7mm) | Kolasib- 236.00mm (428.1mm)

Lawngtlai-291.20mm (453.1mm) | Lunglei-326.00mm (465.14mm) | Mamit-204.87mm (442.80mm) | Serchhip-411.72mm (259.62mm)

### Weather summary of the past three days

**Maximum Tem. (ºC):**24-28ºC
**Minimum Tem. (ºC):**16-18ºC
**Maximum RH (%):**92-98%
**Minimum RH (%):**48-89%
**Wind Direction:** Southeasterly
**Cloud cover:** Mainly clear
**Wind Speed:** 2-4 km/hr

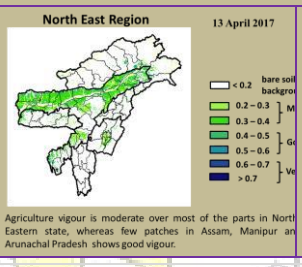
**Rainfall:** 00.0 mm

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-35ºC a ni ang a. A vawh lai ber in 20-22ºC ni tura beisei a ni. RH san lai berin 78-98% leh a hniam lai berin 22-33% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **03.0mm**

### NDVI for Mizoram




Moderately wet mildly dry/mildly wet conditions



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

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



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

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| | | | **Harvesting Stage**<br>• Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>• A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | • A hun takah leh fimkhhur taka seng tur ani.<br>• Hmaih neih nuaih loh tur ani.<br>• Sneg hmaih te lakkhawma paih vek tur ani.<br>• Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>• A thlai vennan a rah tlai ho chu paih vek tur ani.<br>• Hmun dam lutukah dah loh tur.<br>• Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>• Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>• In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | • Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>• Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | • Vaimim chinna tur atan lei kan let phut darh anga.<br>• Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>• A chi chu kan lei leh saah chuan kan dah ang.<br>• A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>• 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>• A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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

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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
|---|---|---|---|
| **Pig** | **All stages** | | ❖ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>❖ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>❖ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ❖ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>❖ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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|---|---|---|---|
| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Serchhip **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 7 |
| Max Temp (ºC) | 36 | 35 | 34 | 34 | 32 |
| Min Temp (ºC) | 21 | 21 | 22 | 22 | 22 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Partially clear |
| Max RH (%) | 75 | 87 | 97 | 98 | 99 |
| Min RH (%) | 27 | 25 | 34 | 34 | 40 |
| Wind Speed (KmpH) | 2 | 2 | 2 | 2 | 2 |
| *Wind Direction | E | S-E | S | E | S-E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):**28-29ºC
**Minimum Tem. (ºC):**18-21ºC
**Maximum RH (%):**77-99%
**Minimum RH (%):**45-81%
**Wind Direction:** Easterly
**Cloud cover:** Mainly clear
**Wind speed:** 2-4 km/hr

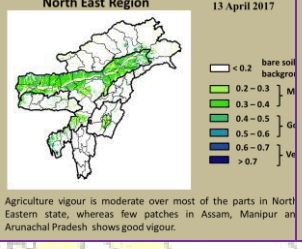
**Rainfall:** 00.0 mm

### Weather forecast valid from 06th May, 2017 To 10thMay, 2017.

There is a chance of rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 32-36ºC and 21-22ºC. Maximum relative humidity is expected in the range of 75-99% and minimum may from 25-40%. Wind direction would be easterly to southeasterly to southerly to easterly and southeasterly with the wind speed of 2 km per hour. Clear sky will prevail during the next five days.

***Weekly cumulative rainfall:*** **07.0 mm**

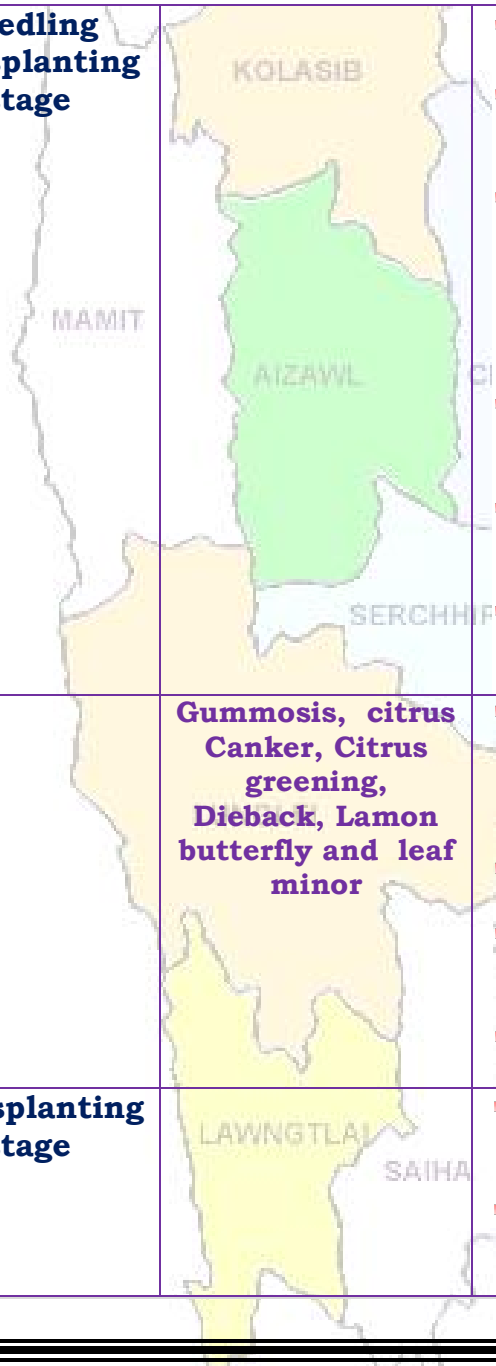
### NDVI for Mizoram




Moderately wet mildly dry/mildly wet conditions



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ▪ Clearing operation may be done during the month of February to April.<br>▪ Make fire line to protect the young tree and seedlings.<br>▪ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ▪ Water level shall be maintained for better transplant.<br>▪ Plough the field two to three times.<br>▪ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>▪ Transplant 2-3 seedlings in one place for avoid gap filling.<br>▪ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>▪ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss |




**Phone: +91 3837 220041, Fax: +91 3837 220560,**
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| | | | |
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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** | | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** | | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** | | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** | | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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**E-mail: kolasib.amfu@gov.in**

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✦ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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**E-mail: kolasib.amfu@gov.in**

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Serchhip **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 7 |
| Max Temp (ºC) | 36 | 35 | 34 | 34 | 32 |
| Min Temp (ºC) | 21 | 21 | 22 | 22 | 22 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Partially clear |
| Max RH (%) | 75 | 87 | 97 | 98 | 99 |
| Min RH (%) | 27 | 25 | 34 | 34 | 40 |
| Wind Speed (KmpH) | 2 | 2 | 2 | 2 | 2 |
| *Wind Direction | E | S-E | S | E | S-E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):28-29ºC**
**Minimum Tem. (ºC):18-21ºC**
**Maximum RH (%):77-99%**
**Minimum RH (%):45-81%**
**Wind Direction: Easterly**
**Cloud cover: Mainly clear**
**Wind speed: 2-4 km/hr**

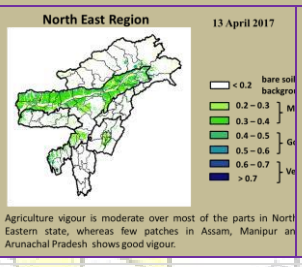
**Rainfall: 00.0 mm**

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-36ºC a ni ang a. A vawh lai ber in 21-22ºC ni tura beisei a ni. RH san lai berin 75-99% leh a hniam lai berin 25-40% ni tur a rin niin. Thli hi darkar khatah 2 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **07.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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|---|---|---|---|
| | | | **Harvesting Stage**<br>Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | A hun takah leh fimkhhur taka seng tur ani.<br>Hmaih neih nuaih loh tur ani.<br>Sneg hmaih te lakkhawma paih vek tur ani.<br>Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>A thlai vennan a rah tlai ho chu paih vek tur ani.<br>Hmun dam lutukah dah loh tur.<br>Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | Vaimim chinna tur atan lei kan let phut darh anga.<br>Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>A chi chu kan lei leh saah chuan kan dah ang.<br>A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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| | | | |
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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
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| **Pig** | **All stages** | | ✓ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>✓ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>✓ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ✓ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>✓ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District: Aizawl** **Period: 06 May – 10 May, 2017**

**Bulletin No: - 698/2017/ Bulletin/English** **Date of issue: 05th May, 2017**

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 4 | 12 | 11 | 15 |
| Max Temp (ºC) | 33 | 32 | 32 | 30 | 30 |
| Min Temp (ºC) | 15 | 16 | 17 | 17 | 17 |
| Cloud Coverage | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 79 | 93 | 97 | 98 | 97 |
| Min RH (%) | 35 | 30 | 47 | 41 | 47 |
| Wind Speed (KmpH) | 3 | 3 | 4 | 3 | 3 |
| *Wind Direction | S-E | S-E | S | S-E | S-E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):29-30ºC**
**Minimum Tem. (ºC):18-21ºC**
**Maximum RH (%):87-98%**
**Minimum RH (%):32-45%**
**Wind Direction: southeasterly**
**Cloud cover: Mainly clear**
**Wind speed: 2-3 km/hr**

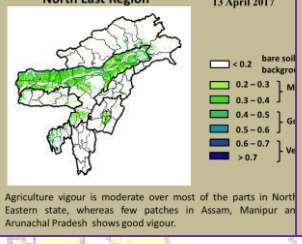
**Rainfall: 00.0 mm**

### Weather forecast valid from 06th May, 2017 To 10thMay, 2017.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-33ºC and 15-17ºC. Maximum relative humidity is expected in the range of 79-98% and minimum may from 30-47%. Wind direction would be southeasterly to southerly and southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

***Weekly cumulative rainfall:*** **42.0 mm**

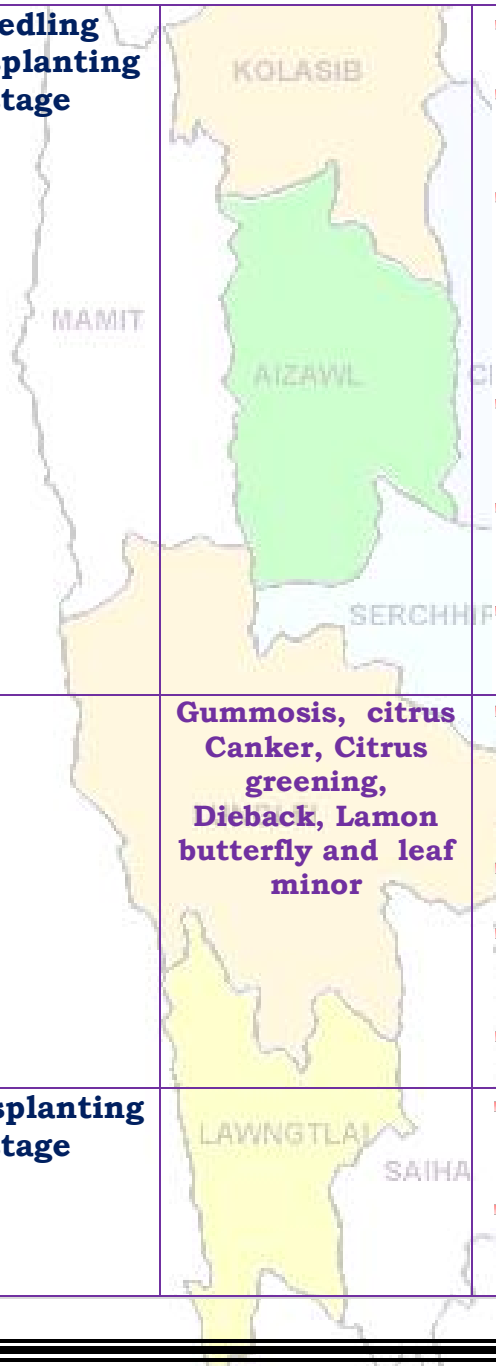
### NDVI for Mizoram




Moderately wet mildly dry/mildly wet conditions



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ▪ Clearing operation may be done during the month of February to April.<br>▪ Make fire line to protect the young tree and seedlings.<br>▪ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ▪ Water level shall be maintained for better transplant.<br>▪ Plough the field two to three times.<br>▪ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>▪ Transplant 2-3 seedlings in one place for avoid gap filling.<br>▪ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>▪ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ▪ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>▪ Earthing up soil for better growth and stability in root zone.<br>▪ Use split dose of any nitrogenous fertilizer for better growth.<br>▪ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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

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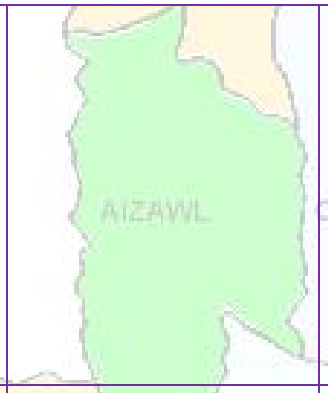
| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |   | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |   | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✦ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Aizawl **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 4 | 12 | 11 | 15 |
| Max Temp (ºC) | 33 | 32 | 32 | 30 | 30 |
| Min Temp (ºC) | 15 | 16 | 17 | 17 | 17 |
| Cloud Coverage | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 79 | 93 | 97 | 98 | 97 |
| Min RH (%) | 35 | 30 | 47 | 41 | 47 |
| Wind Speed (KmpH) | 3 | 3 | 4 | 3 | 3 |
| *Wind Direction | S-E | S-E | S | S-E | S-E |

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

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

Aizawl- 384.87mm (430.2mm) Champhai- 105.48mm (359.89mm) Saiha- 307.40 mm (507.7mm) Kolasib- 236.00mm (428.1mm)

Lawngtlai-291.20mm (453.1mm) Lunglei-326.00mm (465.14mm) Mamit-204.87mm (442.80mm) Serchhip-411.72mm (259.62mm)

### Weather summary of the past three days

**Maximum Tem. (ºC):**29-30ºC
**Minimum Tem. (ºC):**18-21ºC
**Maximum RH (%):**87-98%
**Minimum RH (%):**32-45%
**Wind Direction:** southeasterly
**Cloud cover:** Mainly clear
**Wind speed:** 2-3 km/hr

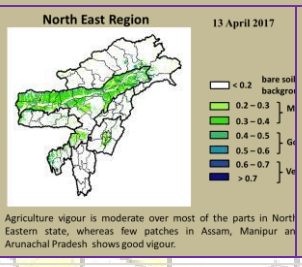
**Rainfall:** 00.0 mm

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-33ºC a ni ang a. A vawh lai ber in 15-17ºC ni tura beisei a ni. RH san lai berin 79-98% leh a hniam lai berin 30-47% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **42.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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|---|---|---|---|
| | | | **Harvesting Stage**<br>Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | A hun takah leh fimkhhur taka seng tur ani.<br>Hmaih neih nuaih loh tur ani.<br>Sneg hmaih te lakkhawma paih vek tur ani.<br>Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>A thlai vennan a rah tlai ho chu paih vek tur ani.<br>Hmun dam lutukah dah loh tur.<br>Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | Vaimim chinna tur atan lei kan let phut darh anga.<br>Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>A chi chu kan lei leh saah chuan kan dah ang.<br>A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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

| | | | |
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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
|---|---|---|---|
| **Pig** | **All stages** | | ❖ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>❖ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>❖ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ❖ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>❖ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Champhai **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 5 | 8 | 10 |
| Max Temp (ºC) | 35 | 34 | 32 | 31 | 31 |
| Min Temp (ºC) | 20 | 20 | 21 | 22 | 22 |
| Cloud Coverage | Clear sky | Clear sky | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 73 | 84 | 91 | 93 | 92 |
| Min RH (%) | 30 | 24 | 43 | 37 | 43 |
| Wind Speed (KmpH) | 3 | 3 | 3 | 3 | 3 |
| *Wind Direction | S-E | S | S-W | S | S |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):**28-29ºC
**Minimum Tem. (ºC):**17-20ºC
**Maximum RH (%):**76-92%
**Minimum RH (%):**35-67%
**Wind Direction:** Southeasterly
**Cloud cover:** Mainly clear
**Wind Speed:** 3-4 km/hr

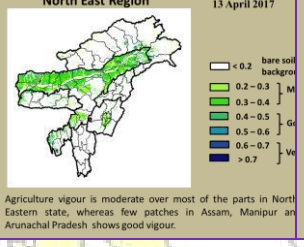
**Rainfall:** 00.0 mm

### Weather forecast valid from 06th May, 2017 To 10thMay, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 31-35ºC and 20-22ºC. Maximum relative humidity is expected in the range of 73-93% and minimum may from 24-43%. Wind direction would be southeasterly to southerly to southwesterly and southerly with the wind speed of 3 km per hour. Partially clear sky will prevail during the next five days.

***Weekly cumulative rainfall:*** **18.0 mm**

### NDVI for Mizoram




Moderately wet mildly dry/mildly wet conditions



**Phone: +91 3837 220041, Fax: +91 3837 220560,**
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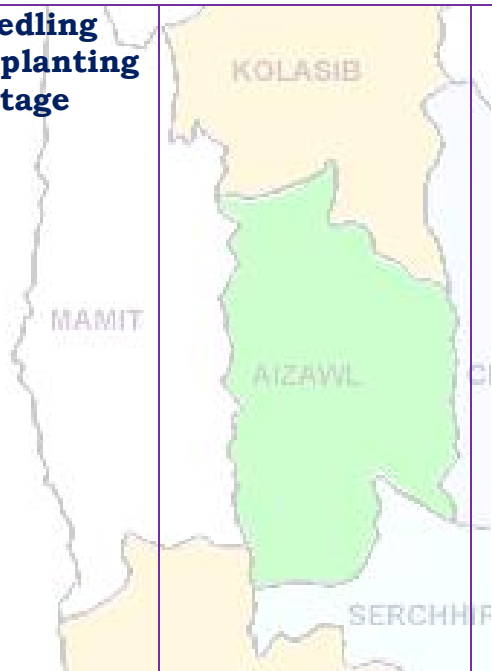
| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ↓ Clearing operation may be done during the month of February to April.<br>↓ Make fire line to protect the young tree and seedlings.<br>↓ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ↓ Water level shall be maintained for better transplant.<br>↓ Plough the field two to three times.<br>↓ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>↓ Transplant 2-3 seedlings in one place for avoid gap filling.<br>↓ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>↓ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ Earthing up soil for better growth and stability in root zone.<br>↓ Use split dose of any nitrogenous fertilizer for better growth.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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

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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |  | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |  | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✦ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✦ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✦ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✦ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Champhai **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 5 | 8 | 10 |
| Max Temp (ºC) | 35 | 34 | 32 | 31 | 31 |
| Min Temp (ºC) | 20 | 20 | 21 | 22 | 22 |
| Cloud Coverage | Clear sky | Clear sky | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 73 | 84 | 91 | 93 | 92 |
| Min RH (%) | 30 | 24 | 43 | 37 | 43 |
| Wind Speed (KmpH) | 3 | 3 | 3 | 3 | 3 |
| *Wind Direction | S-E | S | S-W | S | S |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):28-29ºC**
**Minimum Tem. (ºC):17-20ºC**
**Maximum RH (%):76-92%**
**Minimum RH (%):35-67%**
**Wind Direction: Southeasterly**
**Cloud cover: Mainly clear**
**Wind Speed: 3-4 km/hr**

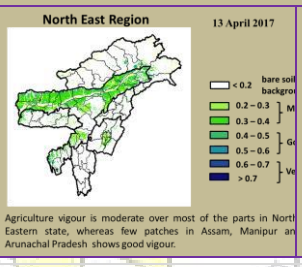
**Rainfall: 00.0 mm**

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-35ºC a ni ang a. A vawh lai ber in 20-22ºC ni tura beisei a ni. RH san lai berin 73-93% leh a hniam lai berin 24-43% ni tur a rin niin. Thli hi darkar khatah 3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **18.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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| | | | **Harvesting Stage**<br>Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | A hun takah leh fimkhhur taka seng tur ani.<br>Hmaih neih nuaih loh tur ani.<br>Sneg hmaih te lakkhawma paih vek tur ani.<br>Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>A thlai vennan a rah tlai ho chu paih vek tur ani.<br>Hmun dam lutukah dah loh tur.<br>Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | Vaimim chinna tur atan lei kan let phut darh anga.<br>Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>A chi chu kan lei leh saah chuan kan dah ang.<br>A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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

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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
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| **Pig** | **All stages** | | ✓ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>✓ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>✓ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ✓ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>✓ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District: Kolasib** **Period: 06 May – 10 May, 2017**

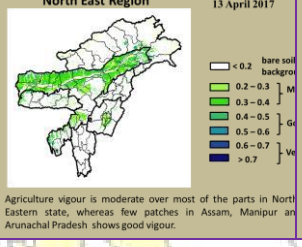
**Bulletin No: - 698/2017/ Bulletin/English** **Date of issue: 05th May, 2017**

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| **Rainfall (mm)** | 0 | 5 | 9 | 8 | 12 |
| **Max Temp (ºC)** | 32 | 30 | 30 | 30 | 29 |
| **Min Temp (ºC)** | 21 | 21 | 22 | 22 | 22 |
| **Cloud Coverage** | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| **Max RH (%)** | 79 | 94 | 97 | 97 | 96 |
| **Min RH (%)** | 39 | 31 | 56 | 43 | 49 |
| **Wind Speed (KmpH)** | 4 | 4 | 4 | 3 | 3 |
| ***Wind Direction** | S-E | S-E | S-E | S-E | S-E |

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

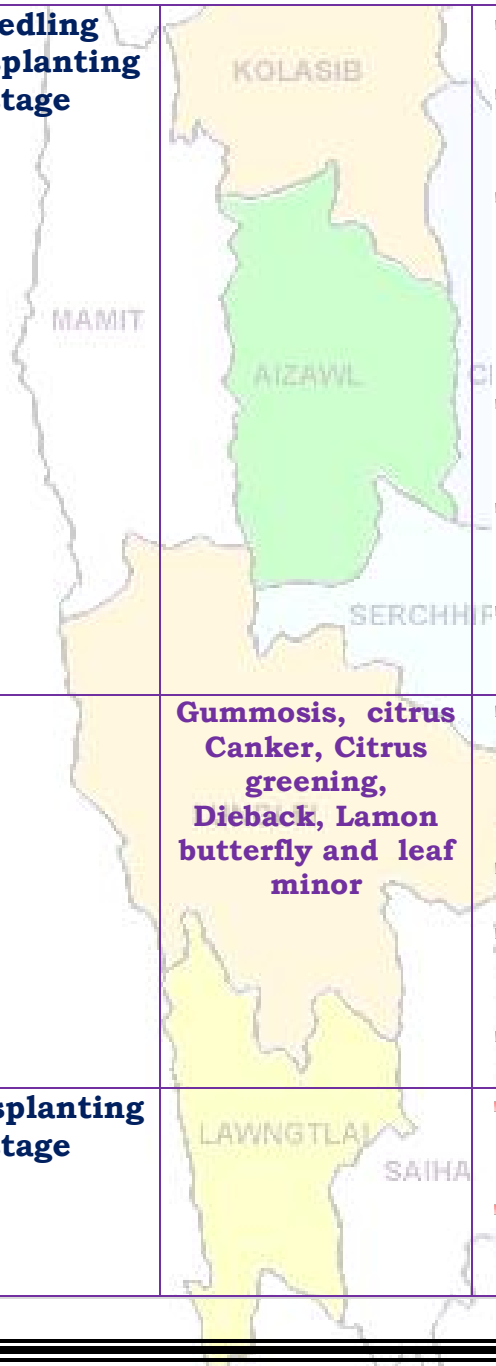
**STATUS OF MONSOON- June 1-30, 2016 (*Percent of deviation from normal in parenthesis*)**

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

| Weather summary of the past three days | Weather forecast valid from 06th May, 2017 To 10thMay, 2017. |
|---|---|
| **Maximum Tem. (ºC):28-31ºC**<br>**Minimum Tem. (ºC):18-21ºC**<br>**Maximum RH (%):89-97%**<br>**Minimum RH (%):61-91%**<br>**Wind Direction: Southeasterly**<br>**Cloud cover: Mainly clear**<br>**Wind speed: 3-4 km/hr**<br><br>**Rainfall: 00.8 mm** | There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 29-32ºC and 21-22ºC. Maximum relative humidity is expected in the range of 79-97% and minimum may from 31-56%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.<br><br>***Weekly cumulative rainfall:* 34.0 mm** |
| **NDVI for Mizoram** |  <br>Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.<br><br>Moderately wet mildly dry/mildly wet conditions |



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |

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**E-mail: kolasib.amfu@gov.in**

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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**E-mail: kolasib.amfu@gov.in**

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ↓ Clearing operation may be done during the month of February to April.<br>↓ Make fire line to protect the young tree and seedlings.<br>↓ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ↓ Water level shall be maintained for better transplant.<br>↓ Plough the field two to three times.<br>↓ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>↓ Transplant 2-3 seedlings in one place for avoid gap filling.<br>↓ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>↓ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ Earthing up soil for better growth and stability in root zone.<br>↓ Use split dose of any nitrogenous fertilizer for better growth.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |  | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |  | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |  | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✓ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✓ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✓ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✓ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✓ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✓ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✓ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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**E-mail: kolasib.amfu@gov.in**

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



**Phone: +91 3837 220041, Fax: +91 3837 220560,**
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# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Kolasib **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 5 | 9 | 8 | 12 |
| Max Temp (ºC) | 32 | 30 | 30 | 30 | 29 |
| Min Temp (ºC) | 21 | 21 | 22 | 22 | 22 |
| Cloud Coverage | Clear sky | Partially clear | Partially clear | Partially clear | Partially clear |
| Max RH (%) | 79 | 94 | 97 | 97 | 96 |
| Min RH (%) | 39 | 31 | 56 | 43 | 49 |
| Wind Speed (KmpH) | 4 | 4 | 4 | 3 | 3 |
| *Wind Direction | S-E | S-E | S-E | S-E | S-E |

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

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

| | | | |
|---|---|---|---|
| Aizawl- 384.87mm (430.2mm) | Champhai- 105.48mm (359.89mm) | Saiha- 307.40 mm (507.7mm) | Kolasib- 236.00mm (428.1mm) |
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### Weather summary of the past three days

**Maximum Tem. (ºC):28-31ºC**
**Minimum Tem. (ºC):18-21ºC**
**Maximum RH (%):89-97%**
**Minimum RH (%):61-91%**
**Wind Direction: Southeasterly**
**Cloud cover: Mainly clear**
**Wind speed: 3-4 km/hr**

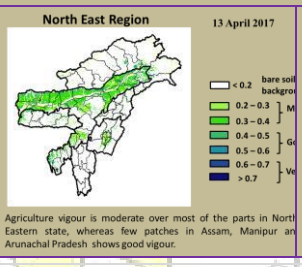
**Rainfall: 00.8 mm**

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-32ºC a ni ang a. A vawh lai ber in 21-22ºC ni tura beisei a ni. RH san lai berin 79-97% leh a hniam lai berin 31-56% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **34.0mm**

### NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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



**Phone: +91 3837 220041, Fax: +91 3837 220560,**
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| | | | |
|---|---|---|---|
| | | | **Harvesting Stage**<br>Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | A hun takah leh fimkhhur taka seng tur ani.<br>Hmaih neih nuaih loh tur ani.<br>Sneg hmaih te lakkhawma paih vek tur ani.<br>Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>A thlai vennan a rah tlai ho chu paih vek tur ani.<br>Hmun dam lutukah dah loh tur.<br>Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | Vaimim chinna tur atan lei kan let phut darh anga.<br>Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>A chi chu kan lei leh saah chuan kan dah ang.<br>A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |



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

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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
|---|---|---|---|
| **Pig** | **All stages** | | ❖ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>❖ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>❖ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ❖ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>❖ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Lawntlai **Period:** 06 May – 10 May, 2017

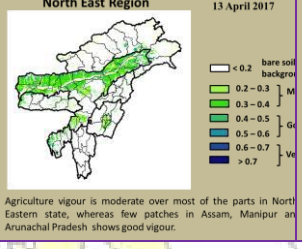
**Bulletin No:** - 698/2017/ Bulletin/English **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 3 |
| Max Temp (ºC) | 35 | 34 | 34 | 35 | 33 |
| Min Temp (ºC) | 22 | 22 | 22 | 23 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Mainly clear |
| Max RH (%) | 82 | 86 | 91 | 93 | 96 |
| Min RH (%) | 27 | 30 | 34 | 33 | 37 |
| Wind Speed (KmpH) | 4 | 4 | 4 | 4 | 4 |
| *Wind Direction | E | E | E | E | E |

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

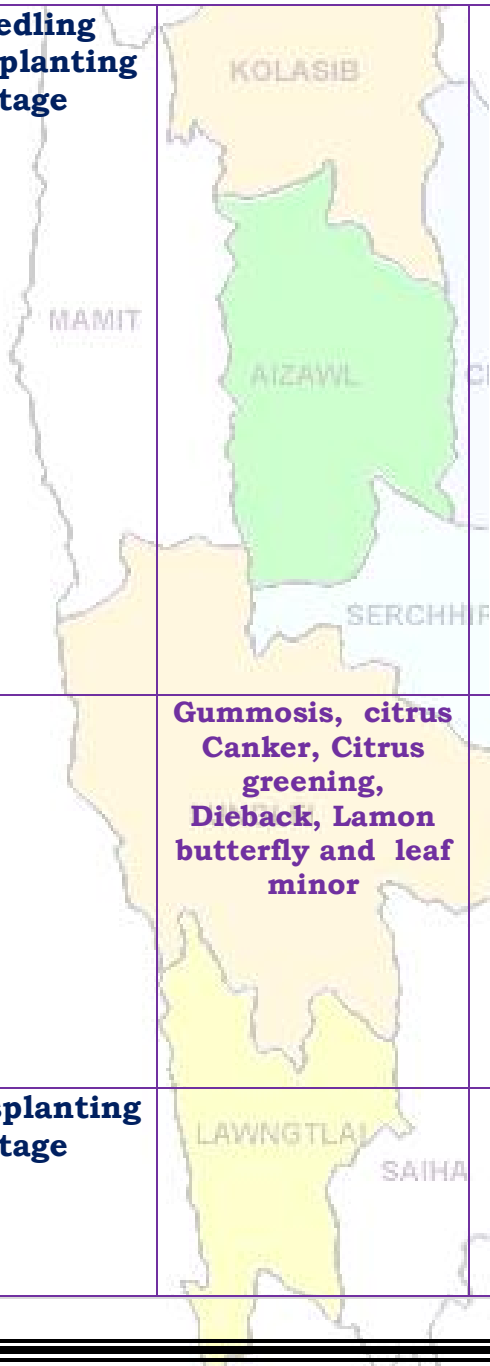
**STATUS OF MONSOON- June 1-30, 2016 (*Percent of deviation from normal in parenthesis*)**

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

| Weather summary of the past three days | Weather forecast valid from 06th May, 2017 To 10thMay, 2017. |
|---|---|
| **Maximum Tem. (ºC):29-31ºC**<br>**Minimum Tem. (ºC):19-22ºC**<br>**Maximum RH (%):91-98%**<br>**Minimum RH (%):54-90%**<br>**Wind Direction: southeasterly**<br>**Cloud cover: Mainly clear**<br>**Wind speed: 2-3 km/hr**<br><br>**Rainfall: 00.0 mm** | There is no chance of rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 33-35ºC and 22-23ºC. Maximum relative humidity is expected in the range of 82-96% and minimum may from 27-37%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.<br><br>***Weekly cumulative rainfall:* 03.0 mm** |
| **NDVI for Mizoram** |  Moderately wet mildly dry/mildly wet conditions |



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

| Main Crop/ Animal /Fisheries | Stage | Cultural practices/ Pest/ Diseases | Agricultural / Horticultural/ animal husbandry advisories |
|---|---|---|---|
| **FRUITS CROPS** | | | |
| **KHASI MANDARIN AND ACID LIME**<br>**BANANA**<br>**STAR FRUIT**<br>**PLUM AND PEACH** | **Seedling transplanting stage** |  | ▪ Fruit palnt should be planted in a sunny and wind-protected area.<br>▪ In the citrus belt, trees can be planted at any time, however, spring is the best time for container grown plants.<br>▪ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance.<br>▪ If the soil is not well-drained, plant the trees on a slight mound to prevent water logging.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment. |
| | | **Gummosis, citrus Canker, Citrus greening, Dieback, Lamon butterfly and leaf minor** | ▪ **Die back**- Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.<br>▪ **Lamon butterfly-** Spray monocrotophos @0.04% @1.2 ml/lt of water.<br>▪ **Leaf minor-** Spray confidor 0.05% (0.5 ml/lit of water) at each flush emergence.<br>▪ **Citrus Canker-** Apply bacterimycin @0.6 g/lt of water. |
| **Passion Fruit** | **Transplanting stage** | | ▪ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings.<br>▪ A cutting should contain at least 3 buds and must be planted in sand beds. |




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

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| | |  | ▪ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene.<br>**Grafting:**<br>▪ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting. |
| **Pineapple** | **Flowering stage** | | ▪ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves.<br>▪ The flowering emergence will come out after 55-60 days after chemical spraying.<br>▪ Apply split doses of fertilizer @ 60: 50:60 g per plant.<br>▪ Remove all unwanted leaves, branches and weed near to the plant. |
| **PLANTATION CROP** | | | |
| **COFFEE** | **Blooming stage** |  | ▪ If day temperature and prolong dry spell occur it lead to Floral abnormalities like “Star Flower” in Arabica and “Pink Flower” in Robusta.<br>▪ Irrigation of plants at alternate day’s interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.<br>▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter.<br>▪ The young fruit plant must be irrigated at weekly interval for better establishment.<br>▪ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days |



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

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| | | | interval. |
| **Rubber** | **Nursery stage** | | ↓ Clearing operation may be done during the month of February to April.<br>↓ Make fire line to protect the young tree and seedlings.<br>↓ 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application. |
| **CEREALS AND PULSE CROPS** | | | |
| **Pre Kharif Rice** | **Transplanting stage** | | ↓ Water level shall be maintained for better transplant.<br>↓ Plough the field two to three times.<br>↓ According to weather forecast next five days rainfall possibility is less so make a bun around the field and close all out late for well maintenance of water in the field.<br>↓ Transplant 2-3 seedlings in one place for avoid gap filling.<br>↓ Spacing should be 20 cm row to row and 15 cm plant to plant.<br>↓ Keep some seedlings in nursery or corner of the field for gap filling. |
| ***Jhum* Rice** | **Germination stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Maize (*Jhum*)** | **Vegetative stage** | | ↓ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>↓ Earthing up soil for better growth and stability in root zone.<br>↓ Use split dose of any nitrogenous fertilizer for better growth.<br>↓ If possible use straw mulch/ grass mulch in row to prevent moisture loss |



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

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| | | | and better growth of plant. |
| **Rabi Maize** | **Harvesting stage** |   | ✦ Harvest all mature cobs from the plant.<br>✦ Keep the cob for sun dry, so moisture level will be maintain.<br>✦ Thresh the seeds from cob and keep for drying.<br>✦ Dry straw should keep for mulching in the field. |
| **VEGETABLE CROP** | | | |
| **Cowpea** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Okra** | **Vegetative stage** |   | ✦ According to weather forecast possibility of rainfall is very less and maximum temperature will be high so maintain the moisture level in the field.<br>✦ Earthing up soil for better growth and stability in root zone.<br>✦ Use split dose of any nitrogenous fertilizer for better growth.<br>✦ If possible use straw mulch/ grass mulch in row to prevent moisture loss and better growth of plant. |
| **Ginger and turmeric** | **Sowing stage** |   | ✦ Rhizome should be treated with Thiram @4 g/kg seed.<br>✦ Use optimum seed rate (50-60 kg/ha) for desire plant population.<br>✦ Apply well decomposed FYM/ pig manure @ 10-20 t/ha along with 120:80:60 kg N, $P_2O_5$ and $K_2O$/ha incorporate with soil before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one |



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

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| | | | month and 25% at flowering stage. |
| **Colocasia** | **Sowing stage** | | ✓ Planting is done well prepared land or pits filled up with FYM (12-15) t/ha<br>✓ Sprouted corms or cormels are planted 5-7 deep at a spacing of 40-50 cm between and within rows in the pits.<br>✓ Inorganic fertilizer like Urea, SSP and MOP @ 220: 375: 134 kg. |
| **ANIMAL HUSBENDARY** | | | |
| **Pig** | **All stages** | | ✓ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm.<br>✓ Regularly monitor their level of 'fitness' and increase their feed intake to maintain.<br>✓ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Culling of positive pigs or piglets. |
| | **Adult stage** | **Swine fever.** | 2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval |
| **Cattle** | **All age group** | | • Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • FMD vaccine at 16 week and repeat every 6 month. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Primary vaccination 6 month or above<br>❖ Revaccination annually |
| **Poultry** | **Litter management** | | ✓ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. |



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

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| | | | ▪ Good management and sanitation are the best ways to avoid infectious disease in poultry.<br>▪ Provide ample quantity of clean drinking water.<br>▪ Avoid feeding of mouldy feed. Don't make sudden changes in feed |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet Disease-** F1 vaccine at (1-6) days of birth and $R_2B$ vaccine for adult birds.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation** | **3rd-4th weeks** | ▪ Application of fertilizers/manure helps in development of plankton which serve as natural feed for the fishes. |
| | | | ▪ Raw cowdung should be applied in the pond at the rate of 10 tonnes/ha/year. One third of the total dose should be applied initially and the rest may be applied in a spilt doses.<br>▪ Single super phosphate should also be applied at the rate of 250 kg/ha in the pond. |
| | | | ▪ After one week of application development of planktons could be observed in the pond depending on the colour of the water. Yellowish green colour is an indicator of the good plankton development.<br>▪ Transparency of the water needs to be maintained at 30-40 cm. |



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

**Expert committee members:**

| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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

# GRAMIN KRISHI MAUSAM SEWA

## ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

**District:** Lawngtlai **Period:** 06 May – 10 May, 2017

**Bulletin No:** - 698/2017/ Bulletin/Mizo **Date of issue:** 05th May, 2017

| Parameters | 06.05.2017 | 07.05.2017 | 08.05.2017 | 09.05.2017 | 10.05.2017 |
|---|---|---|---|---|---|
| Rainfall (mm) | 0 | 0 | 0 | 0 | 3 |
| Max Temp (ºC) | 35 | 34 | 34 | 35 | 33 |
| Min Temp (ºC) | 22 | 22 | 22 | 23 | 23 |
| Cloud Coverage | Clear sky | Clear sky | Clear sky | Clear sky | Mainly clear |
| Max RH (%) | 82 | 86 | 91 | 93 | 96 |
| Min RH (%) | 27 | 30 | 34 | 33 | 37 |
| Wind Speed (KmpH) | 4 | 4 | 4 | 4 | 4 |
| *Wind Direction | E | E | E | E | E |

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

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

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

### Weather summary of the past three days

**Maximum Tem. (ºC):29-31ºC**
**Minimum Tem. (ºC):19-22ºC**
**Maximum RH (%):91-98%**
**Minimum RH (%):54-90%**
**Wind Direction: southeasterly**
**Cloud cover: Mainly clear**
**Wind speed: 2-3 km/hr**

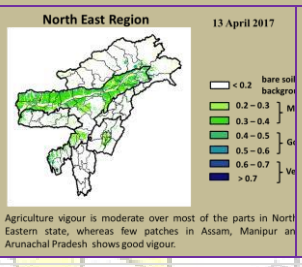
**Rainfall: 00.0 mm**

### 06th May– 10th May, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 33-35ºC a ni ang a. A vawh lai ber in 22-23ºC ni tura beisei a ni. RH san lai berin 82-96% leh a hniam lai berin 27-37% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

***Weekly cumulative rainfall:*** **03.0mm**

### NDVI for Mizoram




Agriculture vigour is moderate over most of the parts in North Eastern state, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

Moderately wet mildly dry/mildly wet conditions



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

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



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

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| | | | **Harvesting Stage**<br>• Coffe rah hmin hi thlasik laiin an seng thin a ni.<br>• A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani. |
| | | **Coffee Berry borer** | • A hun takah leh fimkhhur taka seng tur ani.<br>• Hmaih neih nuaih loh tur ani.<br>• Sneg hmaih te lakkhawma paih vek tur ani.<br>• Seng bang zawng zawng chu uluka taka paih fai vek tur ani.<br>• A thlai vennan a rah tlai ho chu paih vek tur ani.<br>• Hmun dam lutukah dah loh tur.<br>• Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani.<br>• Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit.<br>• In leh loa sawngbawln a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %. |
| | | **Coffee Rust** | • Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani.<br>• Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani. |
| **CEREALS AND PULSE CROPS** | | | |
| **Rabi Maize** | **A chin hun** | | • Vaimim chinna tur atan lei kan let phut darh anga.<br>• Hei hian a rawn to chhuah na tur atan a pui dawn a ni.<br>• A chi chu kan lei leh saah chuan kan dah ang.<br>• A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga.<br>• 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani.<br>• A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, $P_2O_5$ leh |




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

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| | | | $K_2O$/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. |
| **Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow** | **All stage** | **Zero tillage** | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Lei rih vur hian thlai kung te a veng ve ani.<br>✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani. |
| **Potato** | **Sowing stage** | | ✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani.<br>✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani.<br>✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani.<br>✦ A chi thlak hma in a chi chu en fiah hmasak tur ani.<br>✦ A than a that theih nan nikhat danah tui pek thin tur ani. |
| **VEGETABLE CROP** | | | |
| **Tomato** | **Bacterial Blight disease** | | ✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani .<br>✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani.<br>✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani . |
| **Early Cole crop** | **Black spot disease** | | ✦ A than a that theih nan nikhat danah tui pek thin tur ani.<br>✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn |



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

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| | | | awm thin a , hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |
| **Onion and capsicum** | **Nursery stage** | **Poly house** | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani.<br>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. |
| | | **Phytopthora blight** | A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani<br>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. |
| **French bean** | **Sowing stage** | | Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani.<br>A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani. |
| **Carrot and radish** | **Sowing stage** | | A than a that theih nan nikhat danah tui pek thin tur ani.<br>Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani.<br>Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani.<br>Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani. |



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

| ANIMAL HUSBENDARY | | | |
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| **Pig** | **All stages** | | ✓ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani.<br>✓ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani..<br>✓ 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. |
| | | **Porcine Reproductive Respiratory Syndrome (PRRS).** | 1. Vawknote emaw vawk lak hran. |
| | **Adult stage** | **Swine fever.** | 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhunzawm tur ani. |
| **Cattle** | **All age group** | | • Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani. |
| | **All age group** | **Foot and Mouth Disease (FMD)** | • Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani. |
| | **Young stage** | **Black Quarter (BQ)** | • Black Quarter Vaccine (BQV).<br>❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur.<br>❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani. |
| **Poultry** | **Litter management** | | ✓ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a.<br>✓ An hriselna atan enkawlna tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani. |



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

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| | | | ▪ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani.<br>▪ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani. |
| | **Preventive measures** | **0-3 rd week** | ▪ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan $R_2B$ vaccine pek tur ani.<br>▪ B complex with antibodies |
| | | **4th weeks** | ▪ **Coccidiosis-** Amprolium or coccidiostat |
| | | **4-5th Weeks** | ▪ Calcium tonic fortified with $B_{12}$ |
| **FISHERY** | | | |
| | **Pond preparation (Dil buatsaih)** | **3rd-4th weeks** | ▪ Dil a leitha hman hian sangha chaw kan tih mai planktons insiam nan a tanpui thin. |
| | | | ▪ Bawngek hring 10 tonnes/ha/year vel dil ah hman thin a ni a; bawngek kumkhat a kan mamawh zat hmunthum a then a hmunkhat hi dil buatsaih nan hman tur ani. A bak zawng hi tui boruak a zirin semdarh a hman thin tur ani.<br>▪ Single super phosphate hi dil hectare khat zel a zauah kg 250 ang a hman thin tur ani. |
| | | | ▪ Leitha kan hman atang a karkhat hnuah tui rawng a tangin sangha chaw inseam that leh thatloh a hriat theih a. Tui rawng eng hring deuh nghalh ah hian sangha chaw planktons te an inseam tha ang a ngaih ani.<br>▪ Tui nut zawng tehna transparency pawh 30-40 cm vel ani tur ani. |



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| | | | |
|---|---|---|---|
| **Dr. S.B. Singh** | : | Joint Director | **basantasinghsoibam@rediffmail.com** |
| **Dr. Saurav Saha** | : | 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** | : | Scientist (Aquaculture) | viensky2@gmail.com |
| **Dr. Dr. V. Dayal** | : | Scientist (Horticulture) | Vishambhai5009@gmail.com |
| **Dr. Samuel Lalliansanga** | : | Head & Sr. Scientist | samuelpachuau10@gmail.com |
| **Mr. Samik Chowdhury** | : | Technical Officer | samikchowdhury33@gmail.com |
| **Mr. Diktea chenkual** | : | Project Assistant | dikteachenkualboy@gmail.com |

**Collaborating Department:**

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



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