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: 26 July – 30 July, 2017**

Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	24	19	14	0	19
Max Temp (ºC)	30	30	31	32	31
Min Temp (ºC)	22	21	21	21	21
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	82	61	57	62	74
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	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- April 1-30, 2017 (*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):23-26ºC
Minimum Tem. (ºC):16-18ºC
Maximum RH (%):94-100%
Minimum RH (%):82-91%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

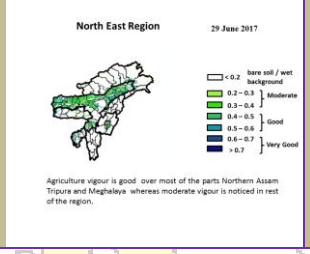
Rainfall: 59.3 mm

Weather forecast valid from 26th July, 2017 To 30th July, 2017.

There are chances of moderate to heavy rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-32ºC and 21-22ºC. Maximum relative humidity is expected in the range of 99% and minimum may from 57-82%. Wind direction would be easterly to southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **76.0 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	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

Phone: +91 3837 220041, Fax: +91 3837 220560,
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		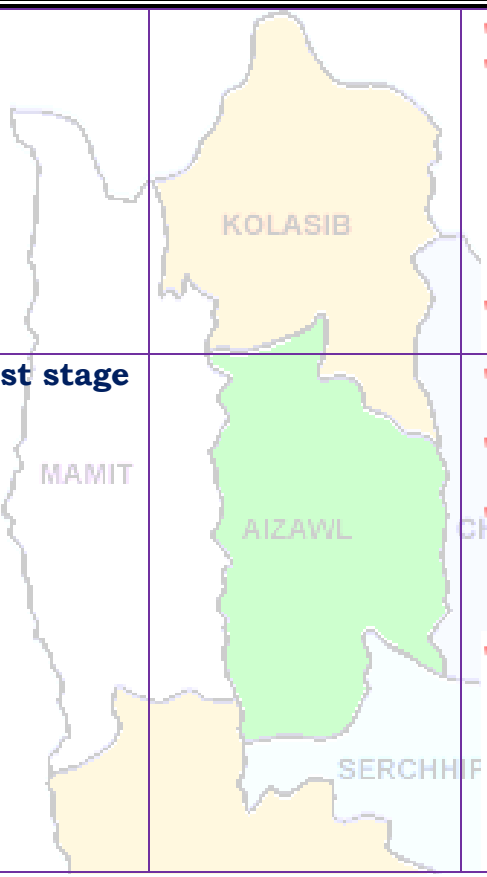	✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

Phone: +91 3837 220041, Fax: +91 3837 220560,
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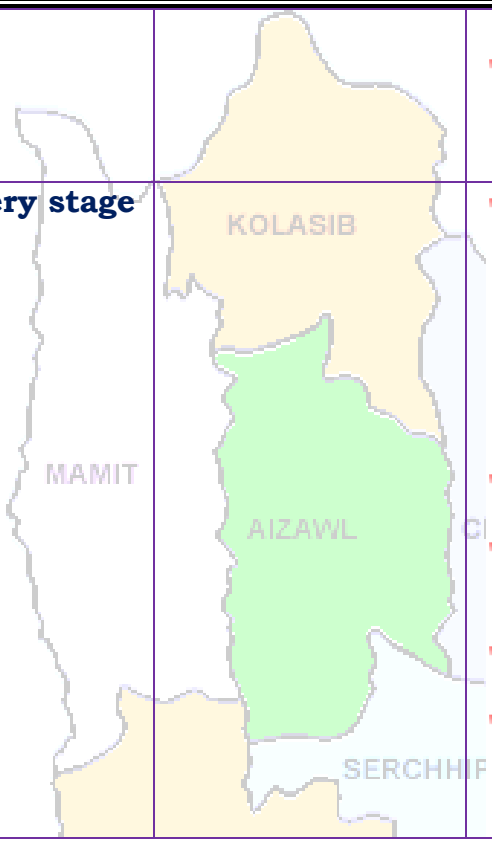
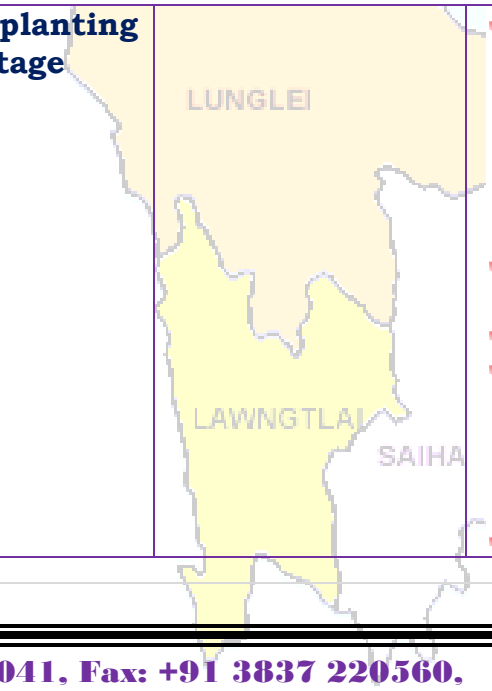
			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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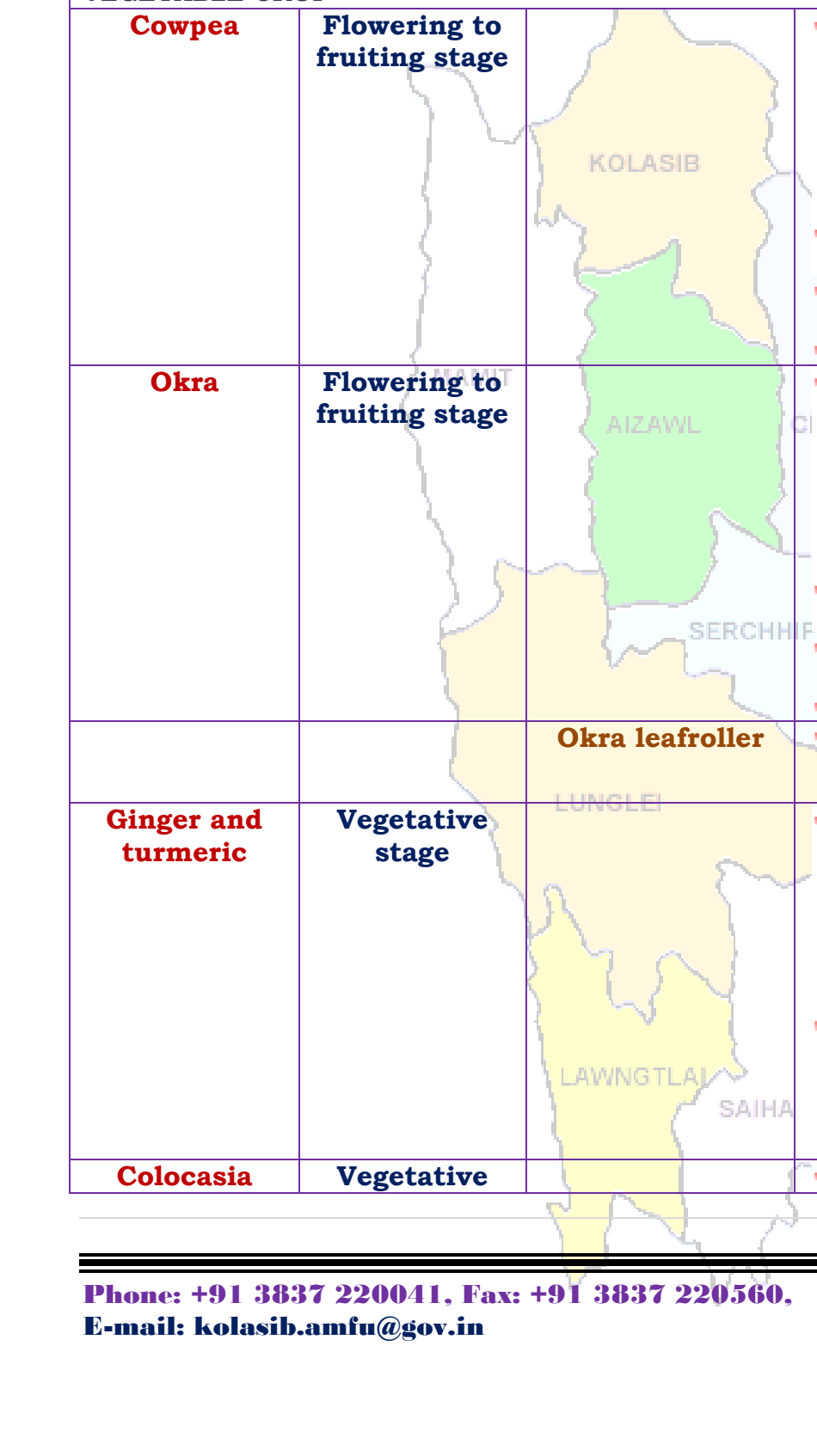
VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
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STATUS OF MONSOON- April 1-30, 2017 (*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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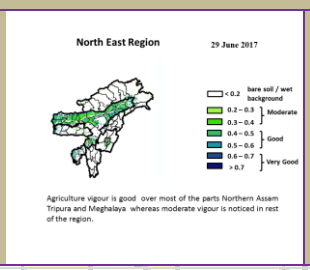
Weather summary of the past three days	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):23-26ºC **Minimum Tem. (ºC):16-18ºC** **Maximum RH (%):94-100%** **Minimum RH (%):82-91%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 59.3 mm**	Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32ºC a ni ang a. A vawh lai ber in 21-22ºC ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 57-82% 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:* 76.0mm**
NDVI for Mizoram	 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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ Ni 45 hnu velah a tiak thin a,chu chu bag ah an sawn chhuak leh thin ani.

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			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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E-mail: kolasib.amfu@gov.in

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

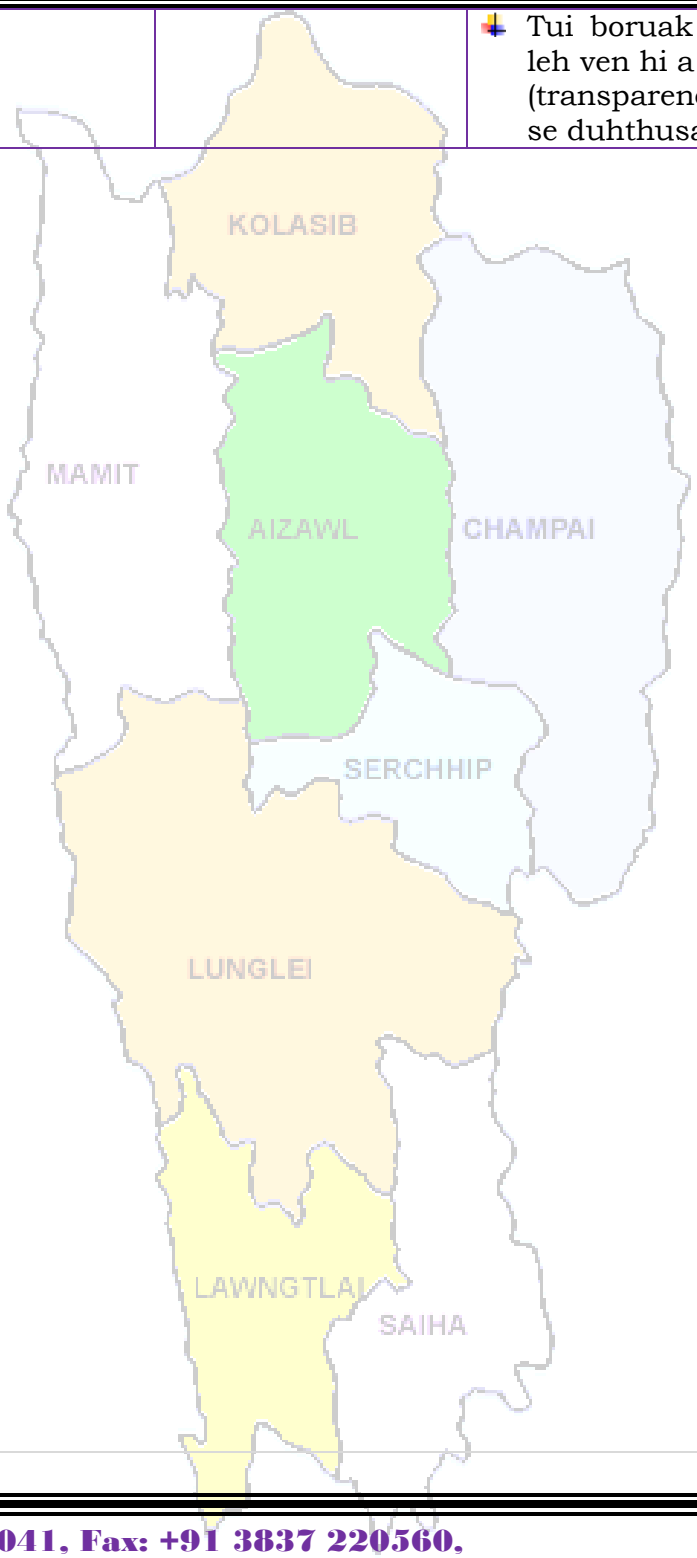
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

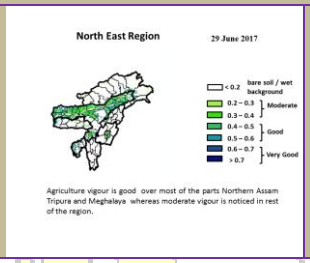
Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	15	10	10	9	10
Max Temp (ºC)	30	30	31	31	33
Min Temp (ºC)	23	24	24	24	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	96	99	99
Min RH (%)	81	68	56	55	59
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	S-E	S-E	S-E	S	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*Percent of deviation from normal in parenthesis*)

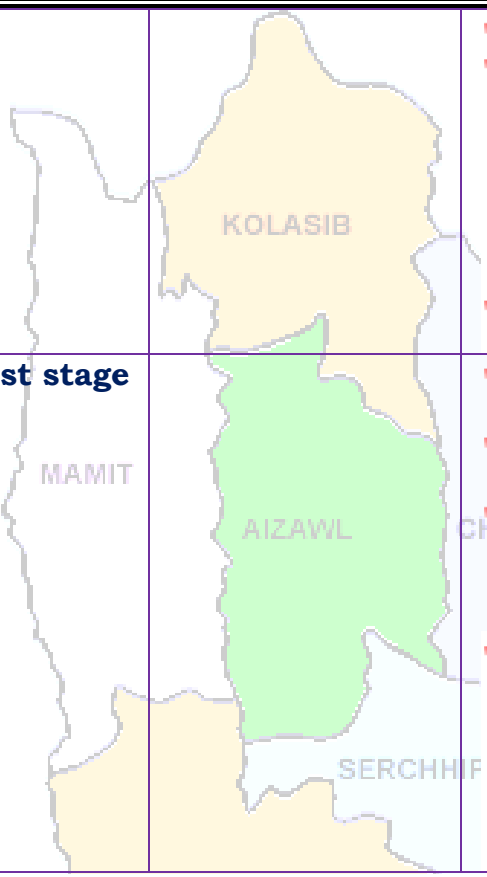
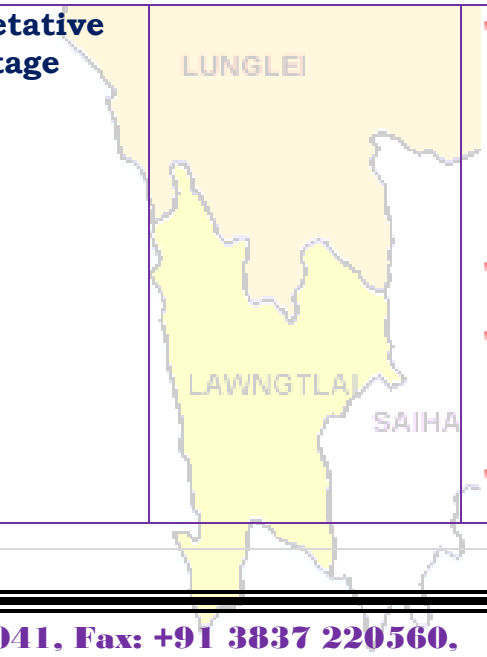
Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days	Weather forecast valid from 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):28-31ºC **Minimum Tem. (ºC):21-22ºC** **Maximum RH (%):96-100%** **Minimum RH (%):78-91%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 28.4 mm**	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-33ºC and 23-25ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 55-81%. Wind direction would be southeasterly to southerly to southeasterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 54.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

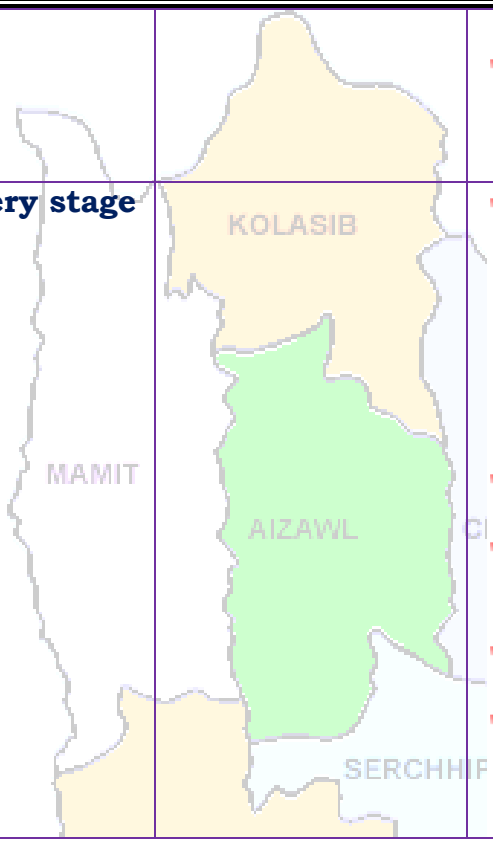
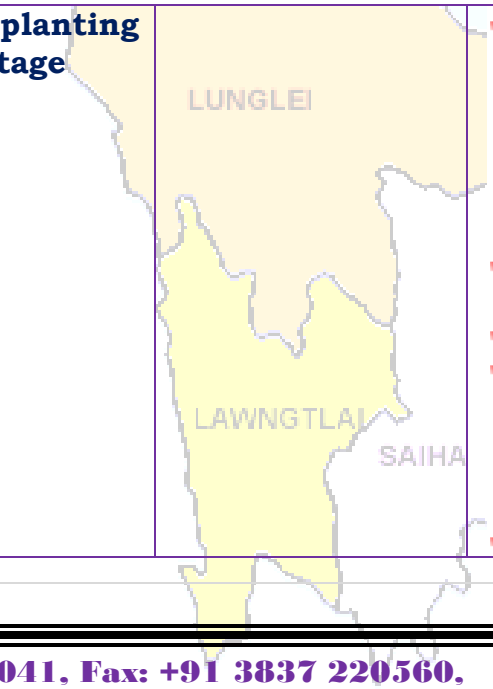
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

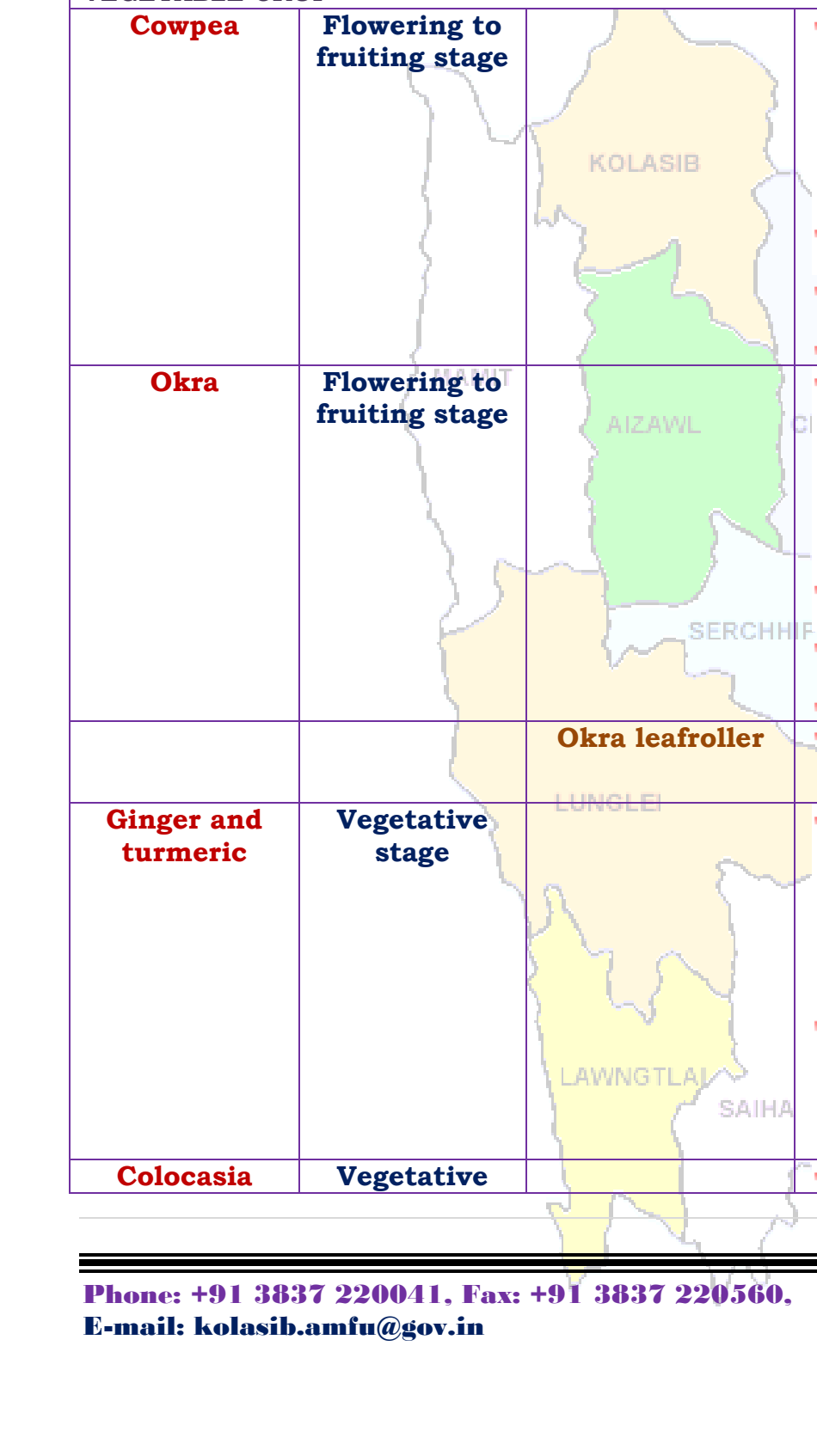
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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

VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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

			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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

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

District: Mamit **Period: 26 July – 30 July, 2017**

Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue: 25th July, 2017**

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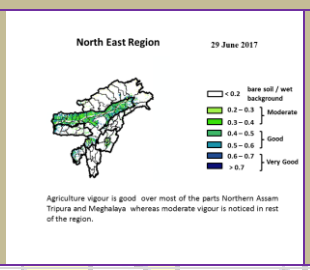
Max Temp (ºC)	30	30	31	31	33
Min Temp (ºC)	23	24	24	24	25
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	96	99	99
Min RH (%)	81	68	56	55	59
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):28-31ºC **Minimum Tem. (ºC):21-22ºC** **Maximum RH (%):96-100%** **Minimum RH (%):78-91%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 28.4 mm**	Tun ni 5 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 23-25ºC ni tura beisei a ni. RH san lai berin 96-99% leh a hniam lai berin 55-81% 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:* 54.0mm**
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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

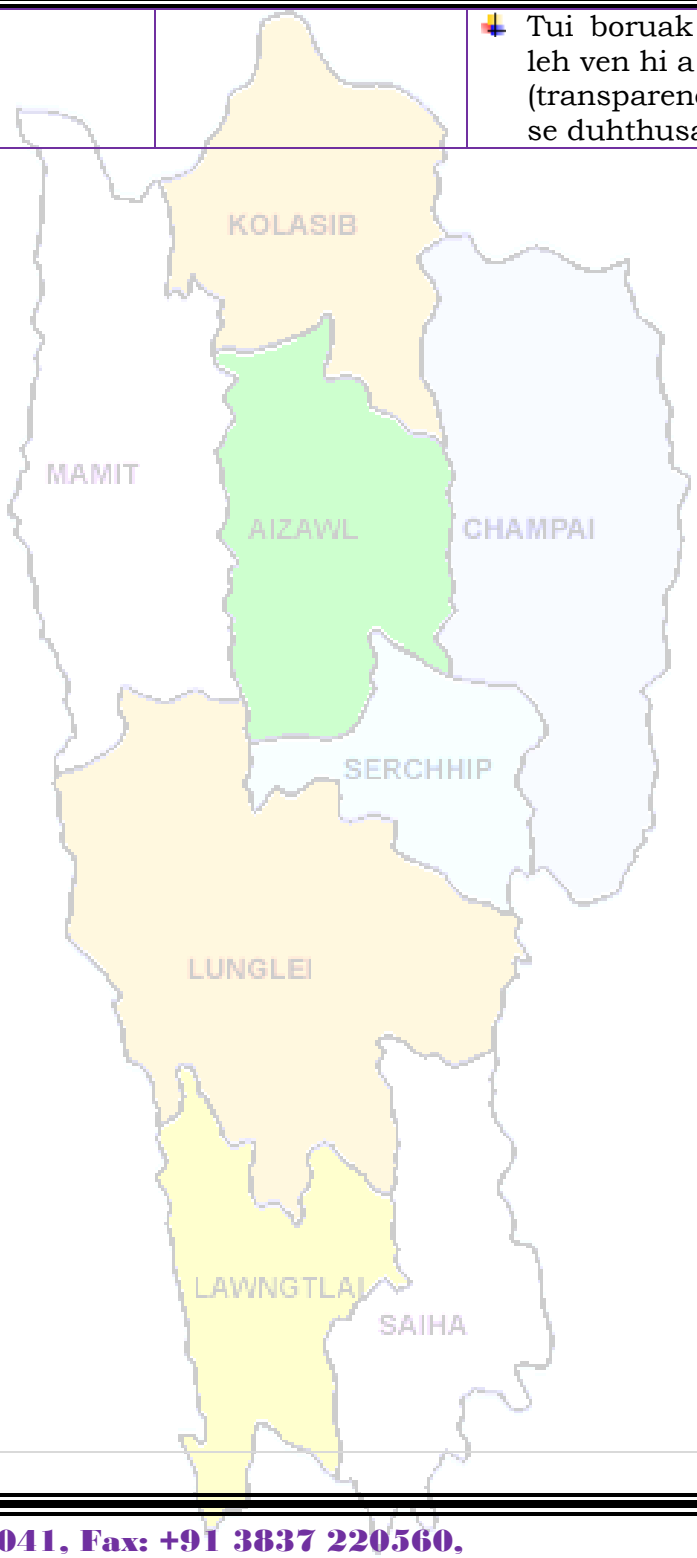
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			➢ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

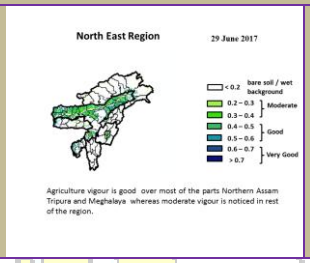
Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	9	14	9	3	14
Max Temp (ºC)	32	32	33	33	32
Min Temp (ºC)	24	24	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	99	98	99
Min RH (%)	72	55	56	70	68
Wind Speed (KmpH)	2	2	0	2	2
***Wind Direction**	E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*Percent of deviation from normal in parenthesis*)

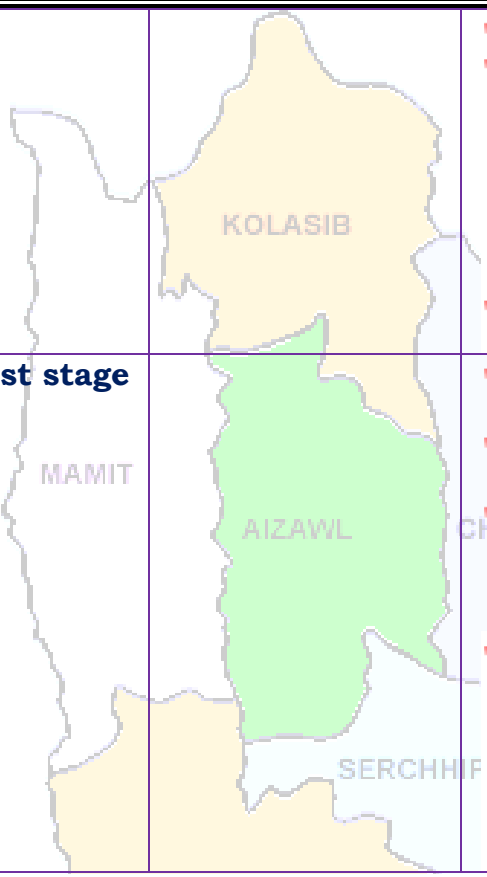
Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days	Weather forecast valid from 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):24-27ºC **Minimum Tem. (ºC):17ºC** **Maximum RH (%):94-99%** **Minimum RH (%):79-89%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 48.7 mm**	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 32-33ºC and 23-24ºC. Maximum relative humidity is expected in the range of 98-99% and minimum may from 55-72%. Wind direction would be easterly to southeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 49.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

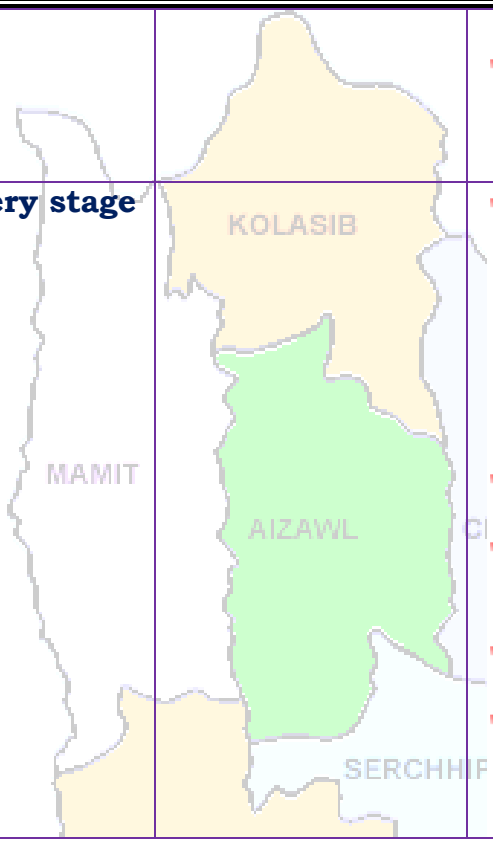
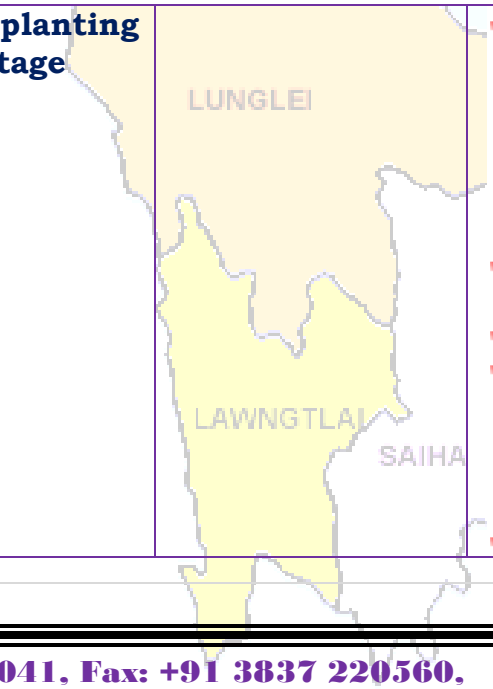
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

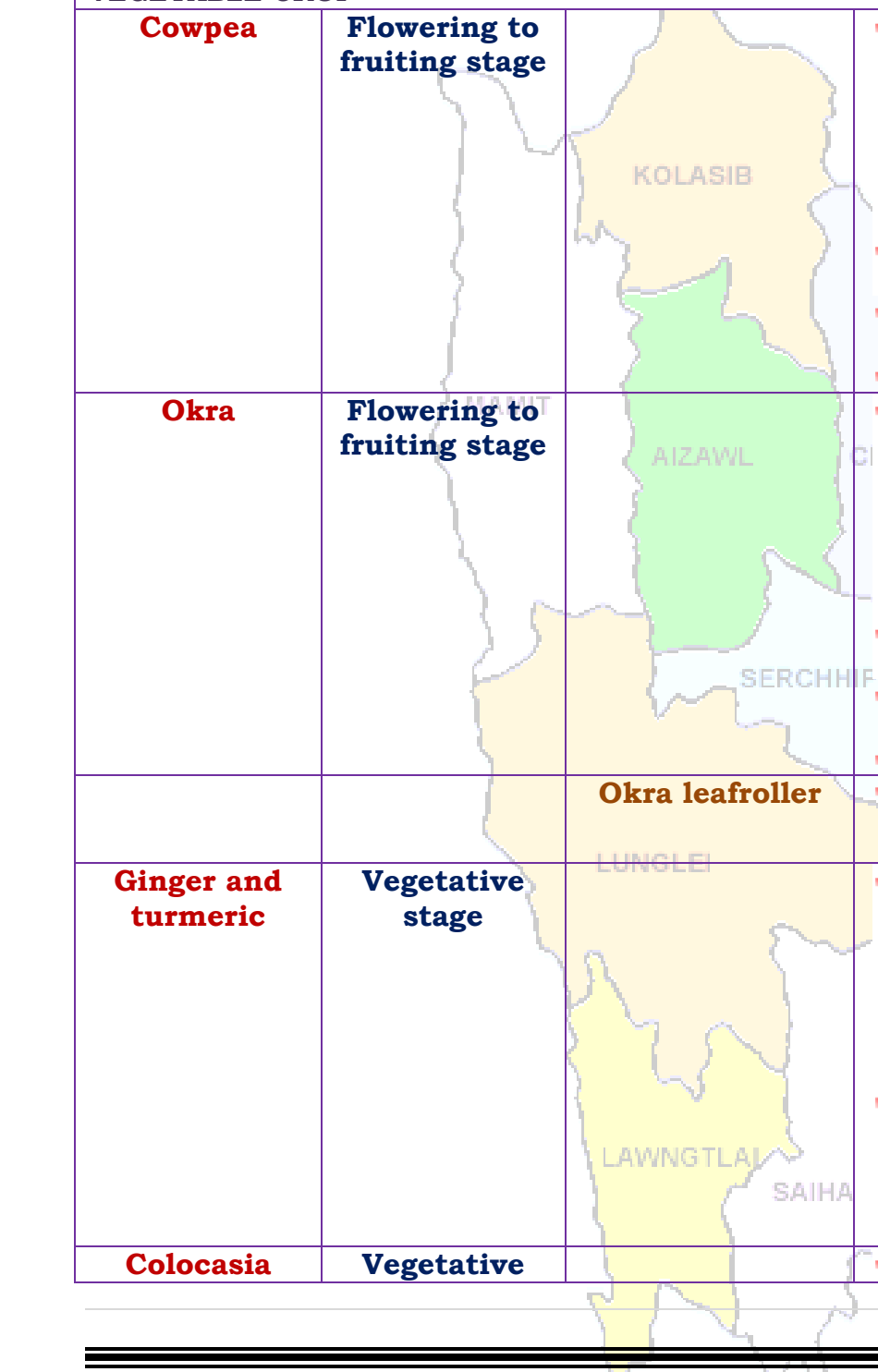
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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

VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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

			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

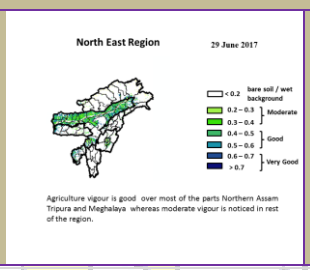
Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	9	14	9	3	14
Max Temp (ºC)	32	32	33	33	32
Min Temp (ºC)	24	24	23	23	23
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	99	98	99
Min RH (%)	72	55	56	70	68
Wind Speed (KmpH)	2	2	0	2	2
***Wind Direction**	E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-27ºC **Minimum Tem. (ºC):**17ºC **Maximum RH (%):**94-99% **Minimum RH (%):**79-89% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 48.7 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 32-33ºC a ni ang a. A vawh lai ber in 23-24ºC ni tura beisei a ni. RH san lai berin of 98-99% leh a hniam lai berin 55-72% ni tur a rin niin. Thli hi darkar khatah 0-2 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:*** **49.0mm**
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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

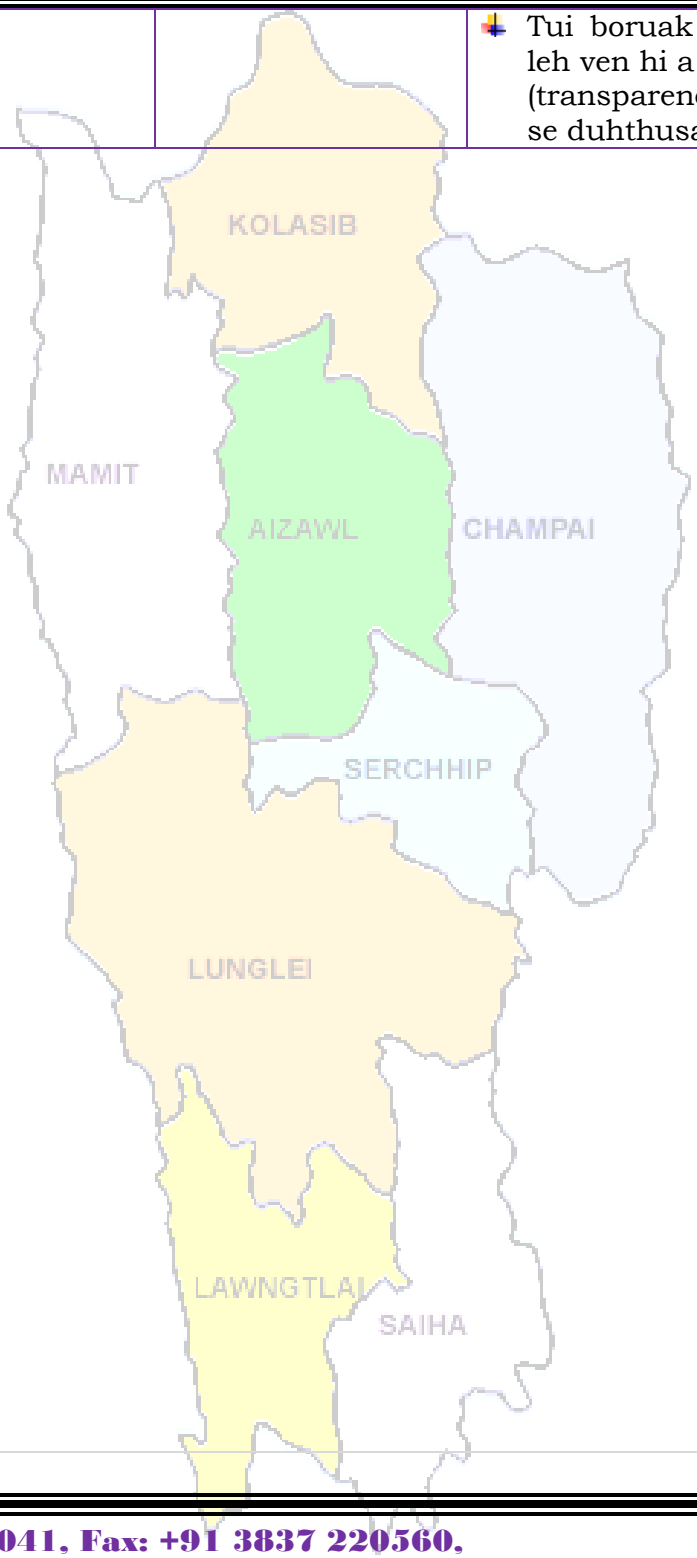
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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:** 26 July – 30 July, 2017

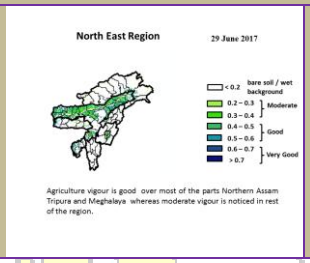
Bulletin No: - 721/2017/ Bulletin/English **Date of issue:** 25th July, 2017

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	18	23	18	6	23
Max Temp (ºC)	32	31	31	32	30
Min Temp (ºC)	23	23	22	22	23
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	100
Min RH (%)	81	58	56	64	80
Wind Speed (KmpH)	2	2	0	0	0
*Wind Direction	E	E	E	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- April 1-30, 2017 (*Percent of deviation from normal in parenthesis*)

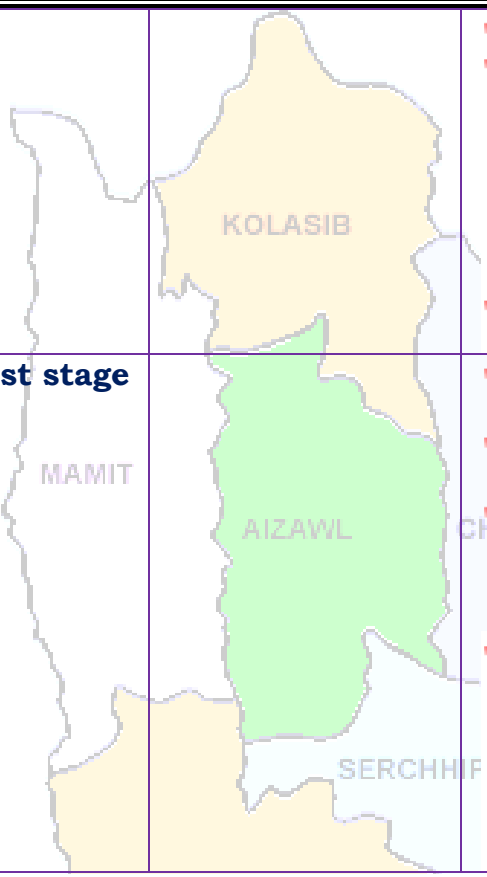
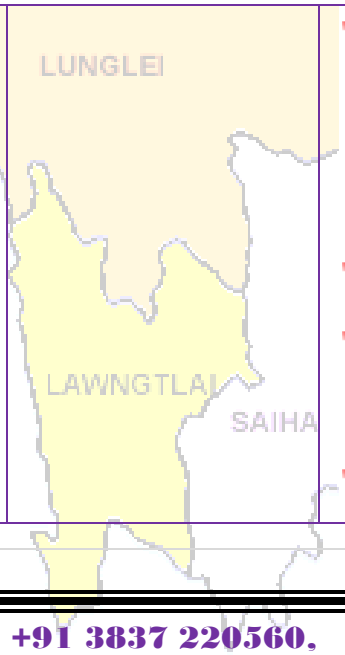
Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days	Weather forecast valid from 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):25-27ºC **Minimum Tem. (ºC):**20-21ºC **Maximum RH (%):**97-99% **Minimum RH (%):**81-91% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 19.8 mm	There are chances of heavy to moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 30-32ºC and 22-23ºC. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-81%. Wind direction would be easterly to southerly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **88.0 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	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

Phone: +91 3837 220041, Fax: +91 3837 220560,
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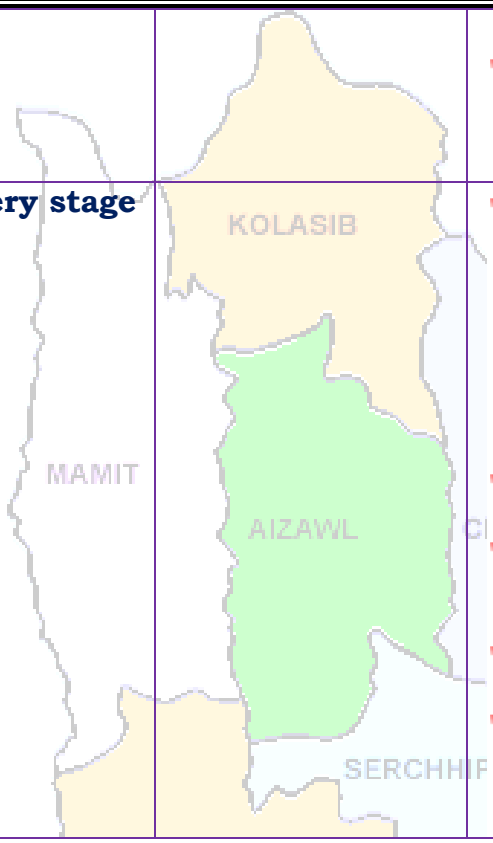
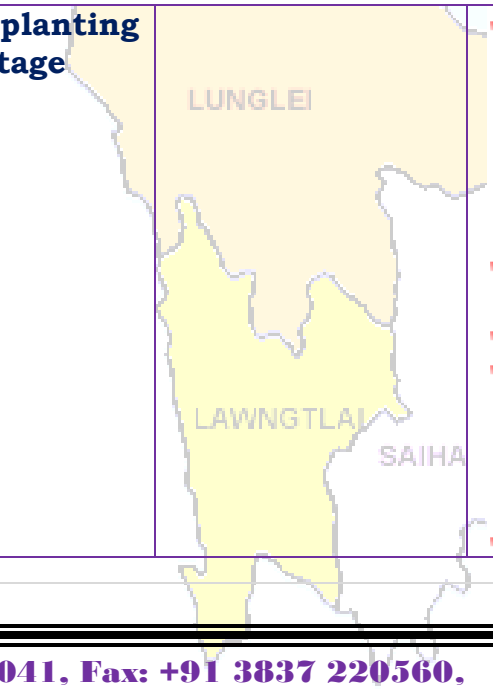
			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

Phone: +91 3837 220041, Fax: +91 3837 220560,
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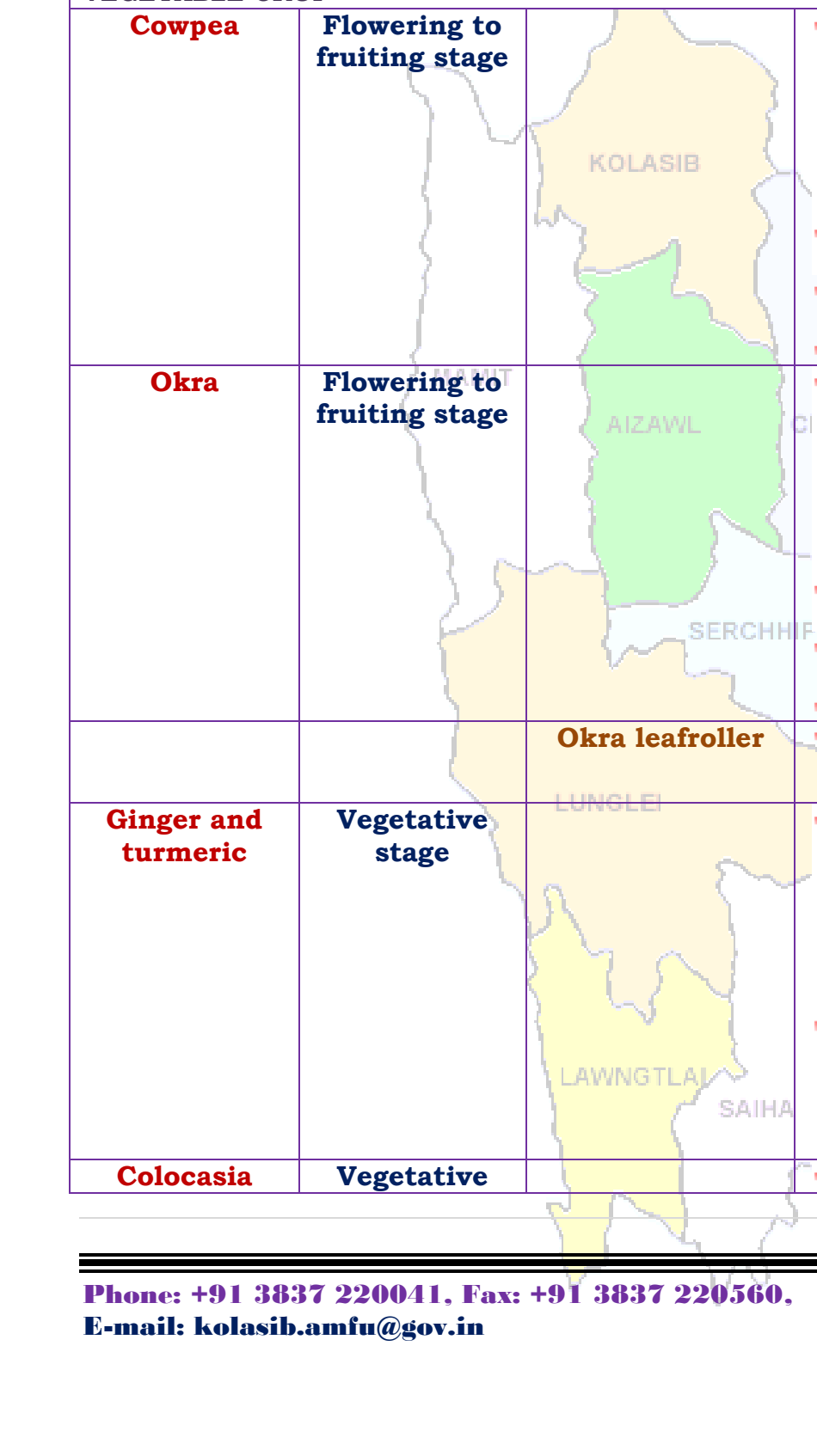
VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

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

District: Serchhip **Period:** 26 July – 30 July, 2017

Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue:** 25th July, 2017

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
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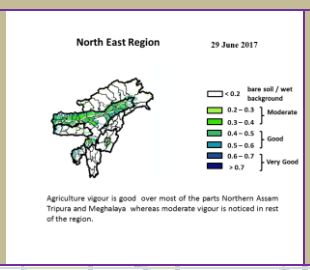
Min RH (%)	81	58	56	64	80
Wind Speed (KmpH)	2	2	0	0	0
*Wind Direction	E	E	E	S	S

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- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):25-27ºC **Minimum Tem. (ºC):**20-21ºC **Maximum RH (%):**97-99% **Minimum RH (%):**81-91% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 19.8 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 30-32ºC a ni ang a. A vawh lai ber in 22-23ºC ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 56-81% ni tur a rin niin. Thli hi darkar khatah 0-2 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:*** **88.0mm**
NDVI for Mizoram	 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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

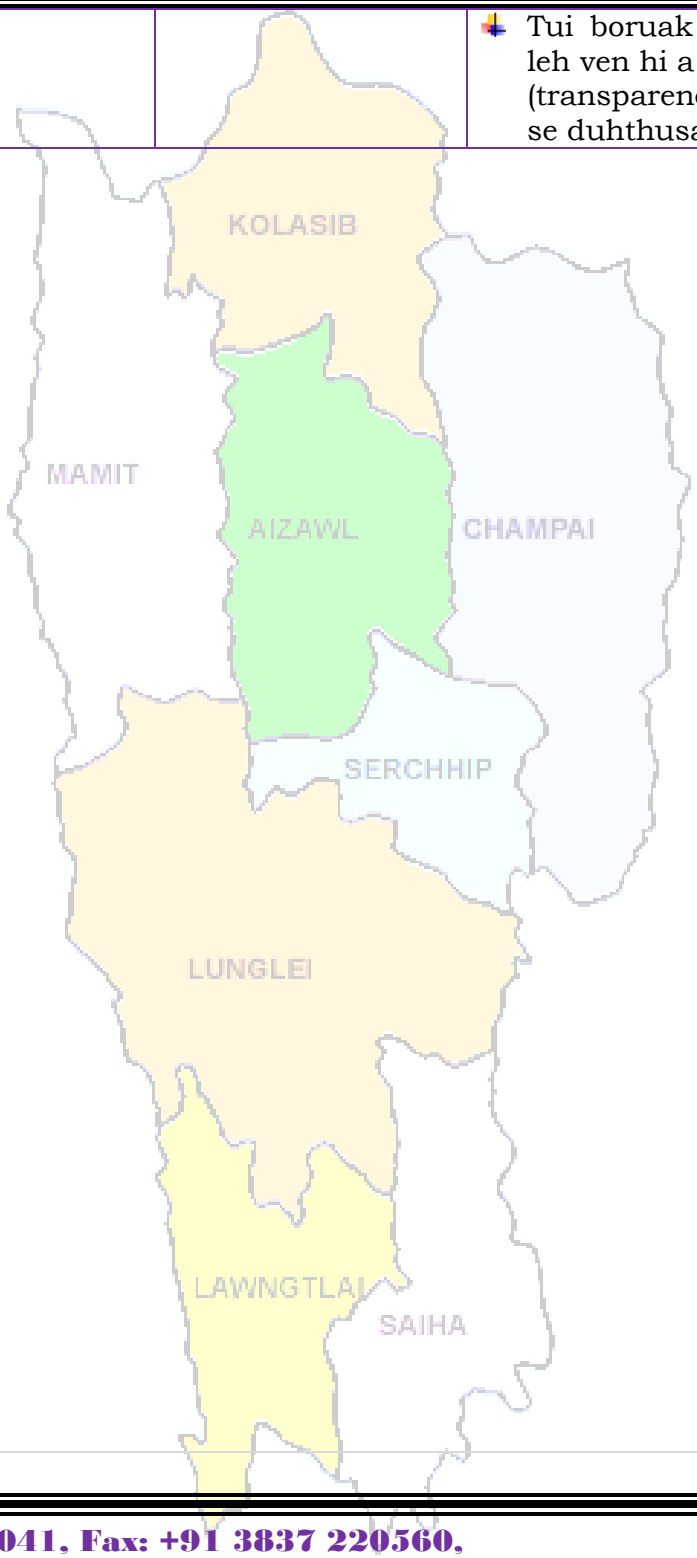
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			➢ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

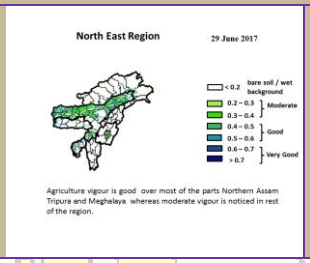
Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	25	12	15	13	12
Max Temp (ºC)	28	29	29	30	30
Min Temp (ºC)	14	14	14	13	14
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	99
Min RH (%)	79	71	58	59	62
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	S-E	S-E	S-E	S-W	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*Percent of deviation from normal in parenthesis*)

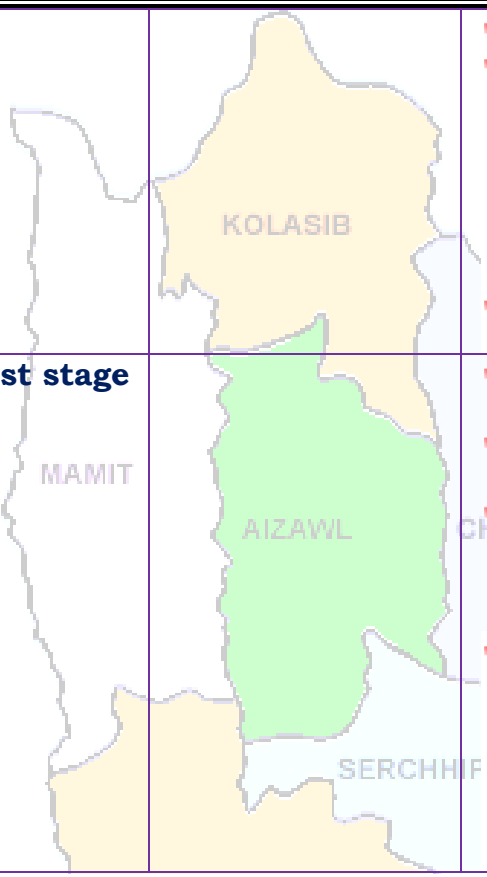
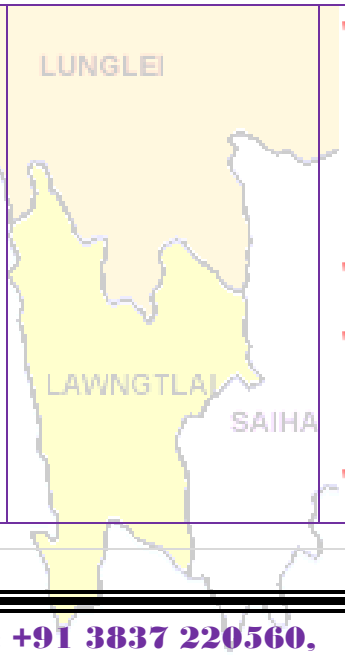
Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days	Weather forecast valid from 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):19-20ºC** **Maximum RH (%):95-99%** **Minimum RH (%):81-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 26.3 mm**	There are chances of heavy to moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-30ºC and 13-14ºC. Maximum relative humidity is expected in the range of 97-99% and minimum may from 58-79%. Wind direction would be southeasterly to southwesterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy will prevail during the next five days. ***Weekly cumulative rainfall:* 77.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

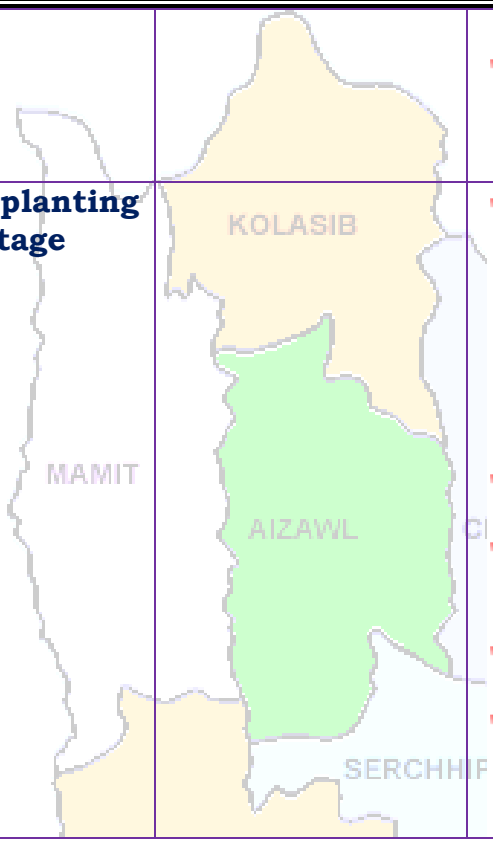
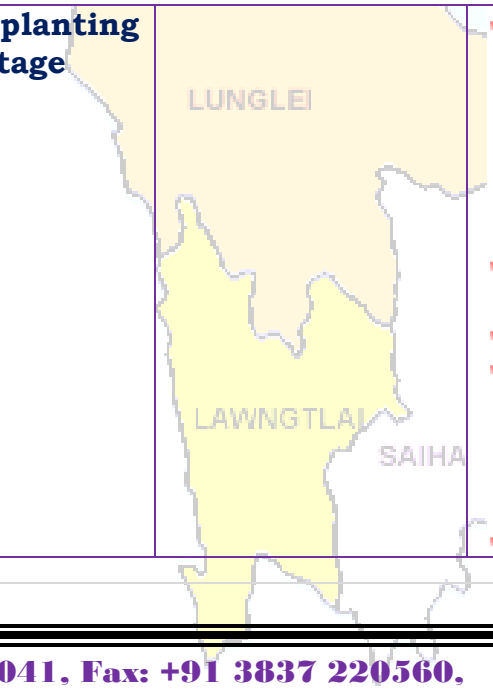
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

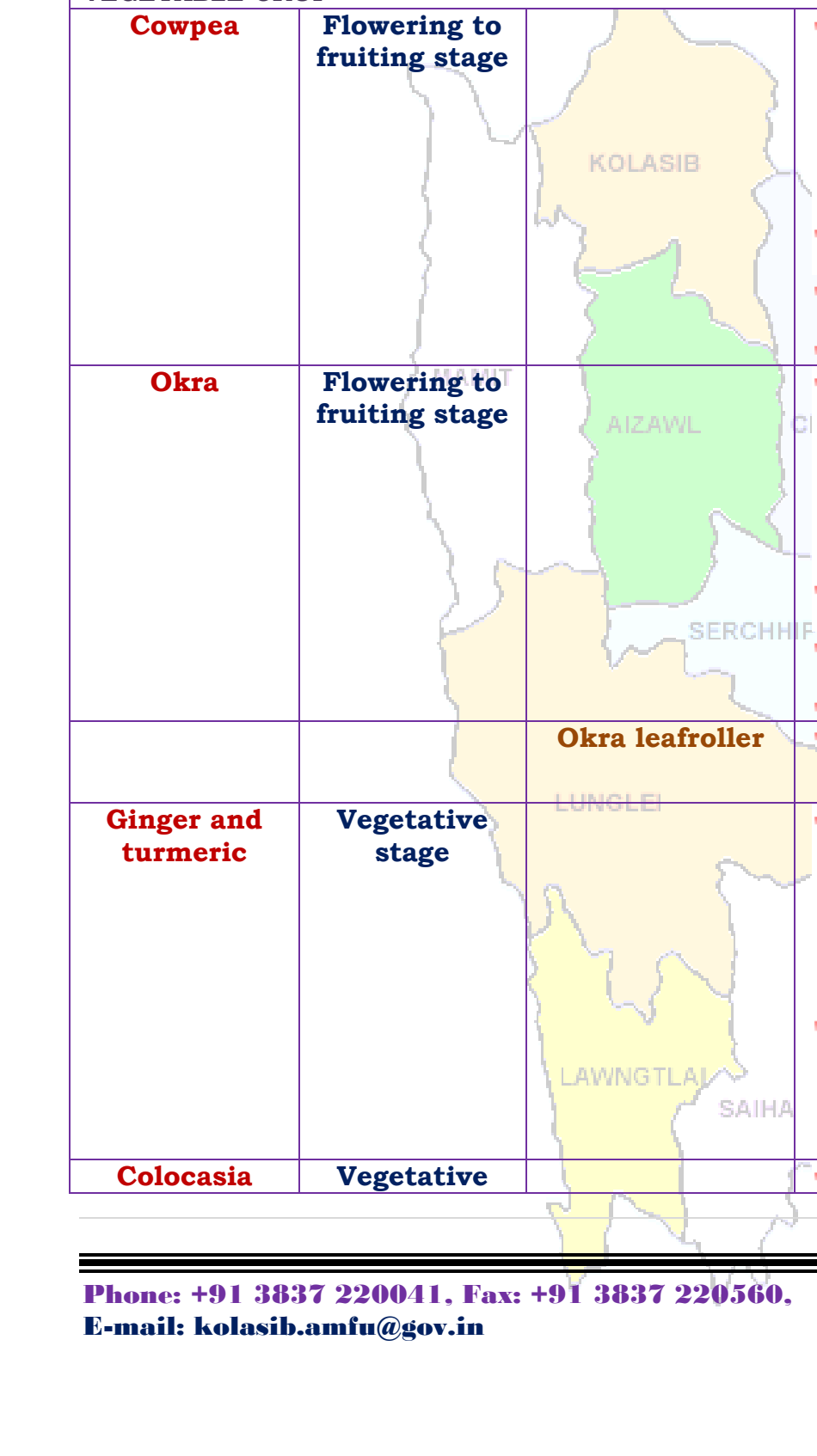
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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

VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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

			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

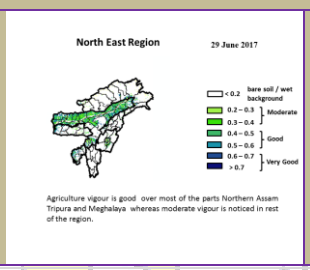
Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	25	12	15	13	12
Max Temp (ºC)	28	29	29	30	30
Min Temp (ºC)	14	14	14	13	14
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	99	99	97	99	99
Min RH (%)	79	71	58	59	62
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	S-E	S-E	S-E	S-W	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):19-20ºC** **Maximum RH (%):95-99%** **Minimum RH (%):81-92%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2-3 km/hr** **Rainfall: 26.3 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-30ºC a ni ang a. A vawh lai ber in 13-14ºC ni tura beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 58-79% 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:* 77.0mm**
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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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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. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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,
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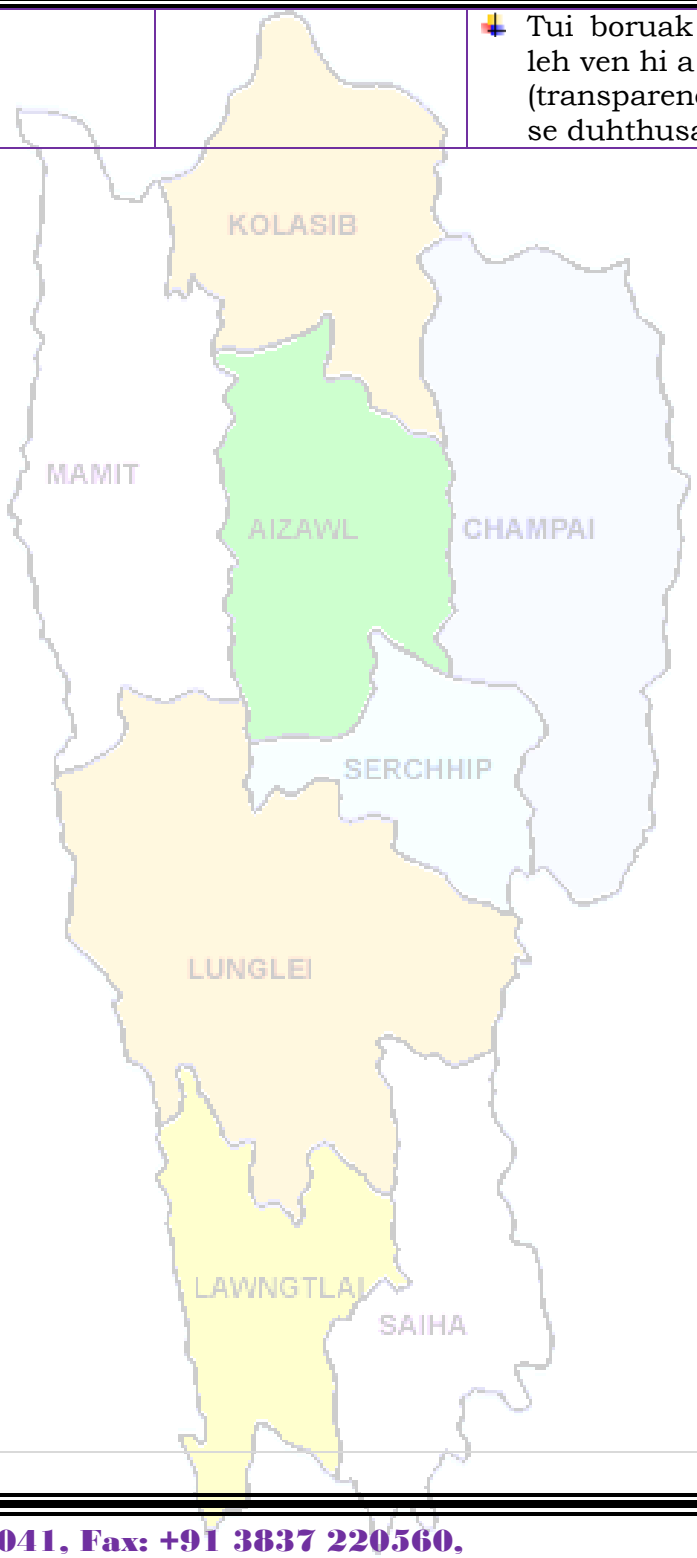
			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			➢ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 26 July – 30 July, 2017**

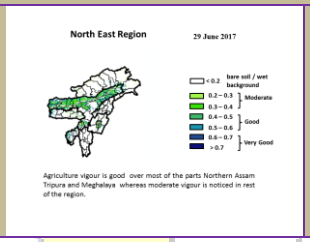
Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	18	21	18	14	21
Max Temp (ºC)	32	32	31	31	32
Min Temp (ºC)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	97	96	96	97
Min RH (%)	81	68	60	65	67
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-W	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- April 1-30, 2017 (*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 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):27-29ºC **Minimum Tem. (ºC):19-21ºC** **Maximum RH (%):94-97%** **Minimum RH (%):75-89%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind Speed: 2-3 km/hr** **Rainfall: 26.7 mm**	There are chances of heavy to moderate rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32ºC and 24-25ºC. Maximum relative humidity is expected in the range of 96-98% and minimum may from 60-81%. Wind direction would be southeasterly to southwesterly and southerly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 92.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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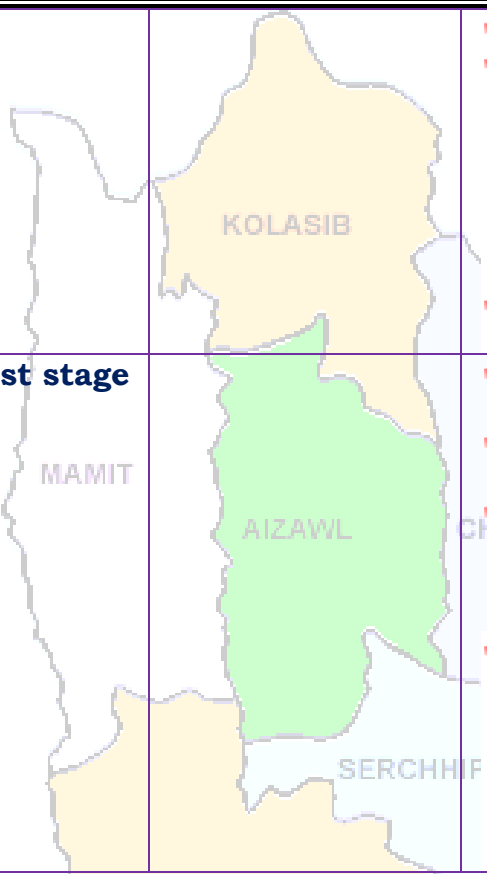
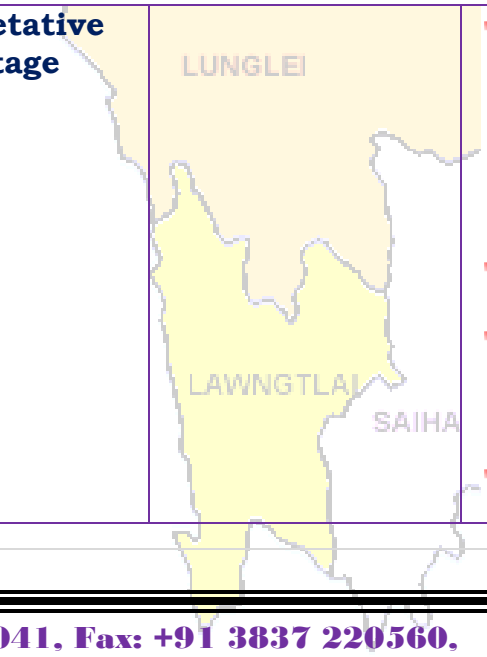
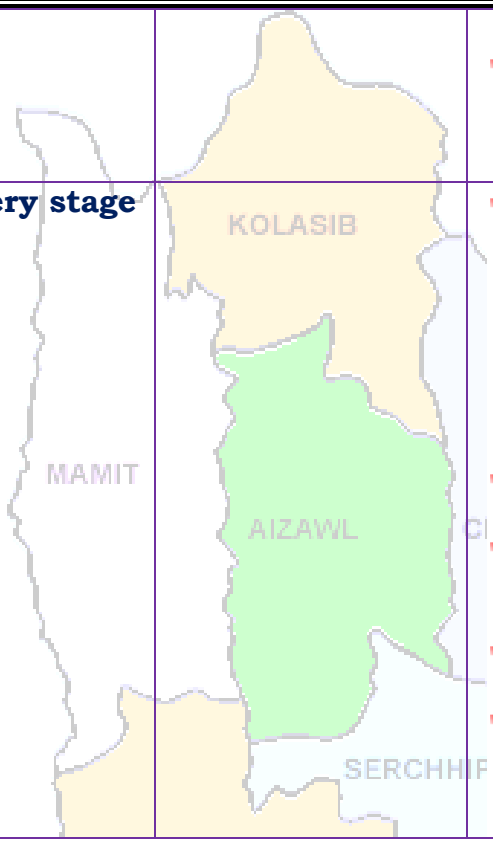
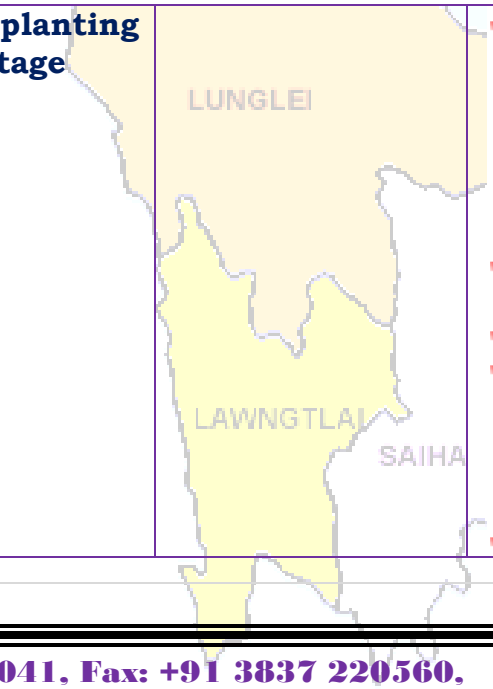
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

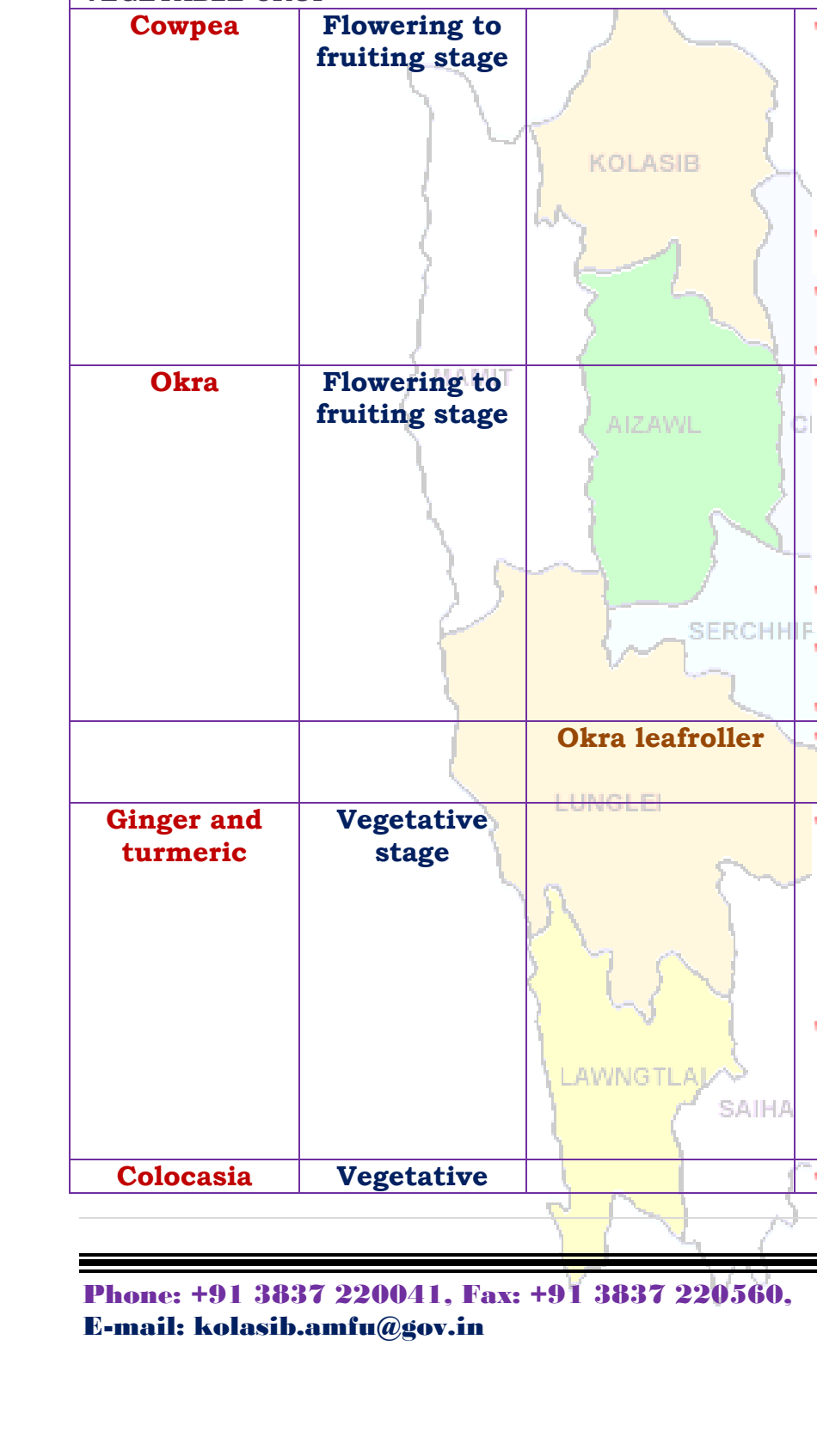
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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

VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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

			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

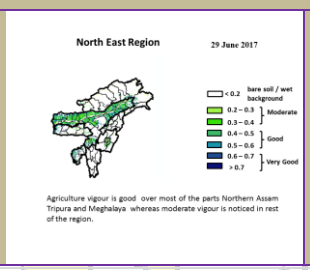
Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	18	21	18	14	21
Max Temp (ºC)	32	32	31	31	32
Min Temp (ºC)	24	24	24	25	25
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	97	96	96	97
Min RH (%)	81	68	60	65	67
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	S-E	S-E	S-E	S-W	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- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):27-29ºC **Minimum Tem. (ºC):19-21ºC** **Maximum RH (%):94-97%** **Minimum RH (%):75-89%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind Speed: 2-3 km/hr** **Rainfall: 26.7 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-32ºC a ni ang a. A vawh lai ber in 24-25ºC ni tura beisei a ni. RH san lai berin of 96-98% leh a hniam lai berin 60-81% 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:* 92.0mm**
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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

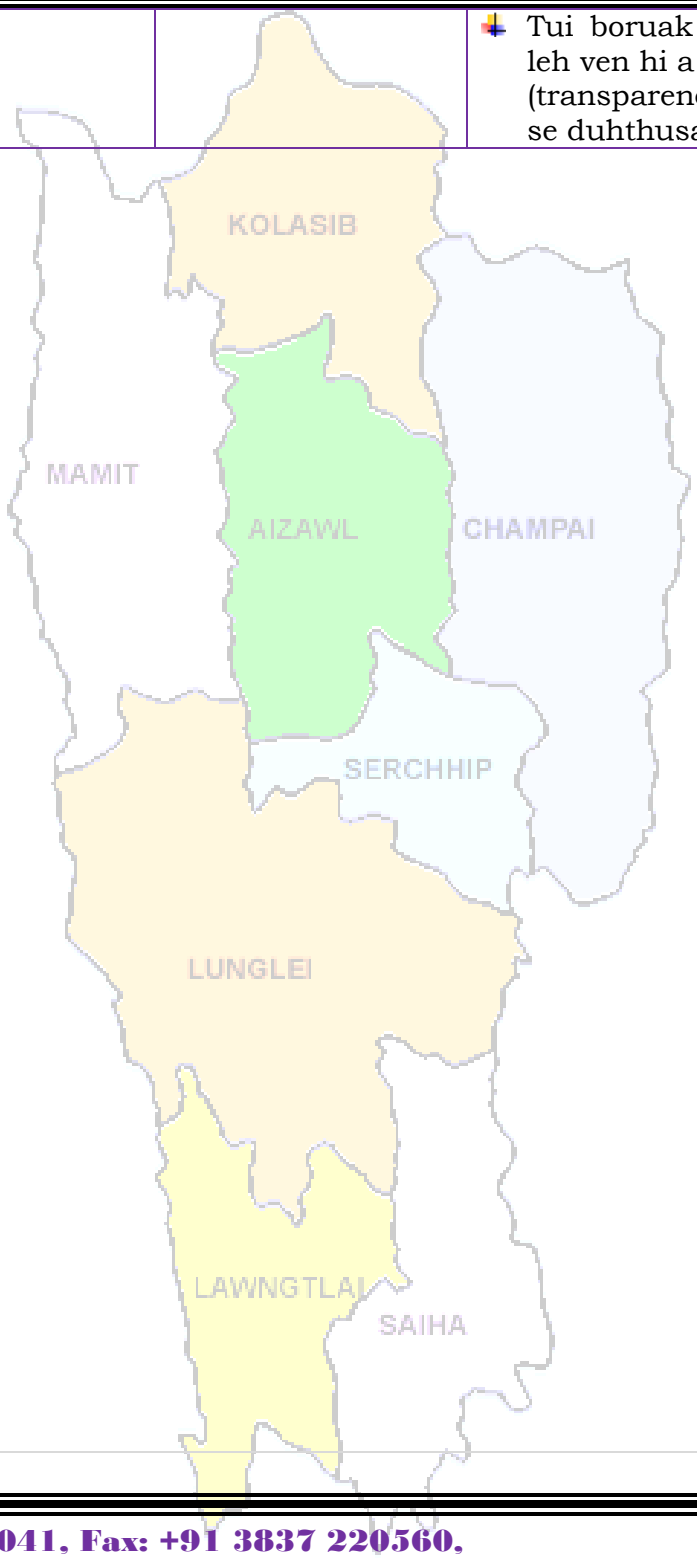
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			➢ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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: 26 July – 30 July, 2017**

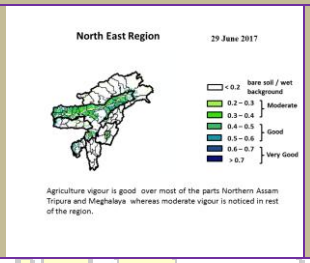
Bulletin No: - 721/2017/ Bulletin/English **Date of issue: 25th July, 2017**

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	15	4	11	11	4
Max Temp (ºC)	31	32	31	31	32
Min Temp (ºC)	24	24	23	23	24
Cloud Coverage	Mainly cloudy	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear
Max RH (%)	98	98	96	99	98
Min RH (%)	76	72	59	59	58
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	S-E	S-E	S-E	S-W	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*Percent of deviation from normal in parenthesis*)

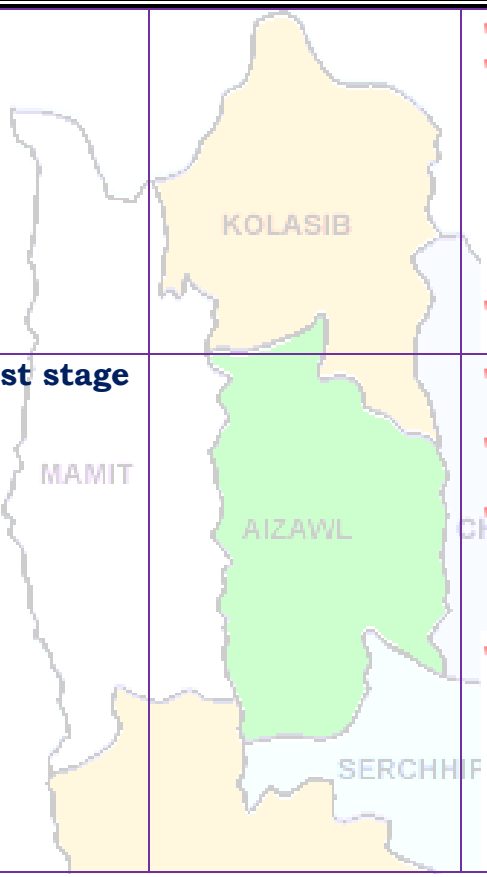
Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
Lawngtlai-291.20mm (453.1mm)	Lunglei-326.00mm (465.14mm)	Mamit-204.87mm (442.80mm)	Serchhip-411.72mm (259.62mm)

Weather summary of the past three days	Weather forecast valid from 26th July, 2017 To 30th July, 2017.
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):22-23ºC** **Maximum RH (%):92-100%** **Minimum RH (%):86-97%** **Wind Direction: Southeasterly** **Cloud cover: Mainly cloudy** **Wind speed: 2 km/hr** **Rainfall: 38.0 mm**	There are chances of moderate to light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32ºC and 23-24ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 58-76%. Wind direction would be southeasterly to southwesterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 45.0 mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

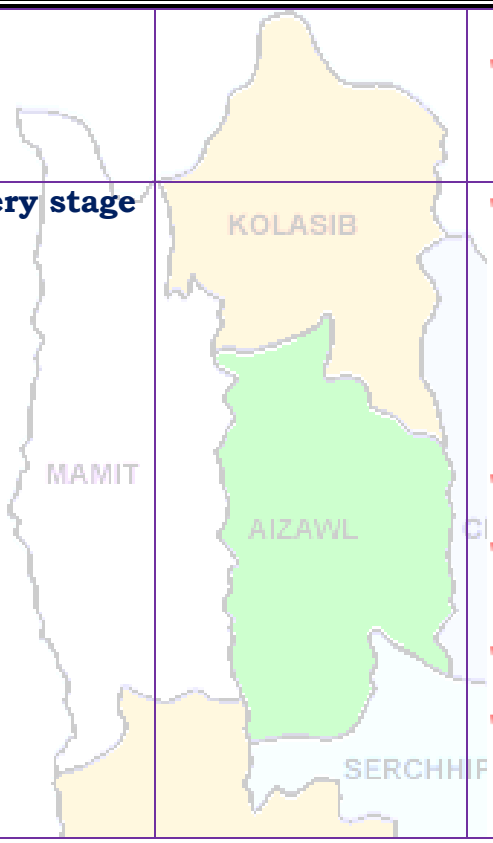
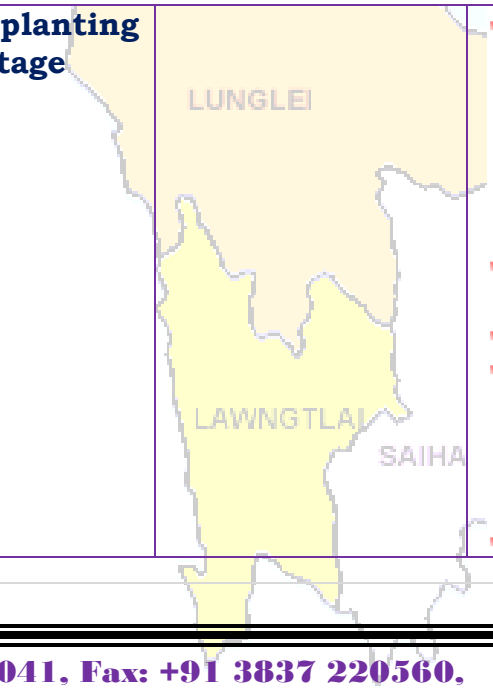
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

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

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

Phone: +91 3837 220041, Fax: +91 3837 220560,
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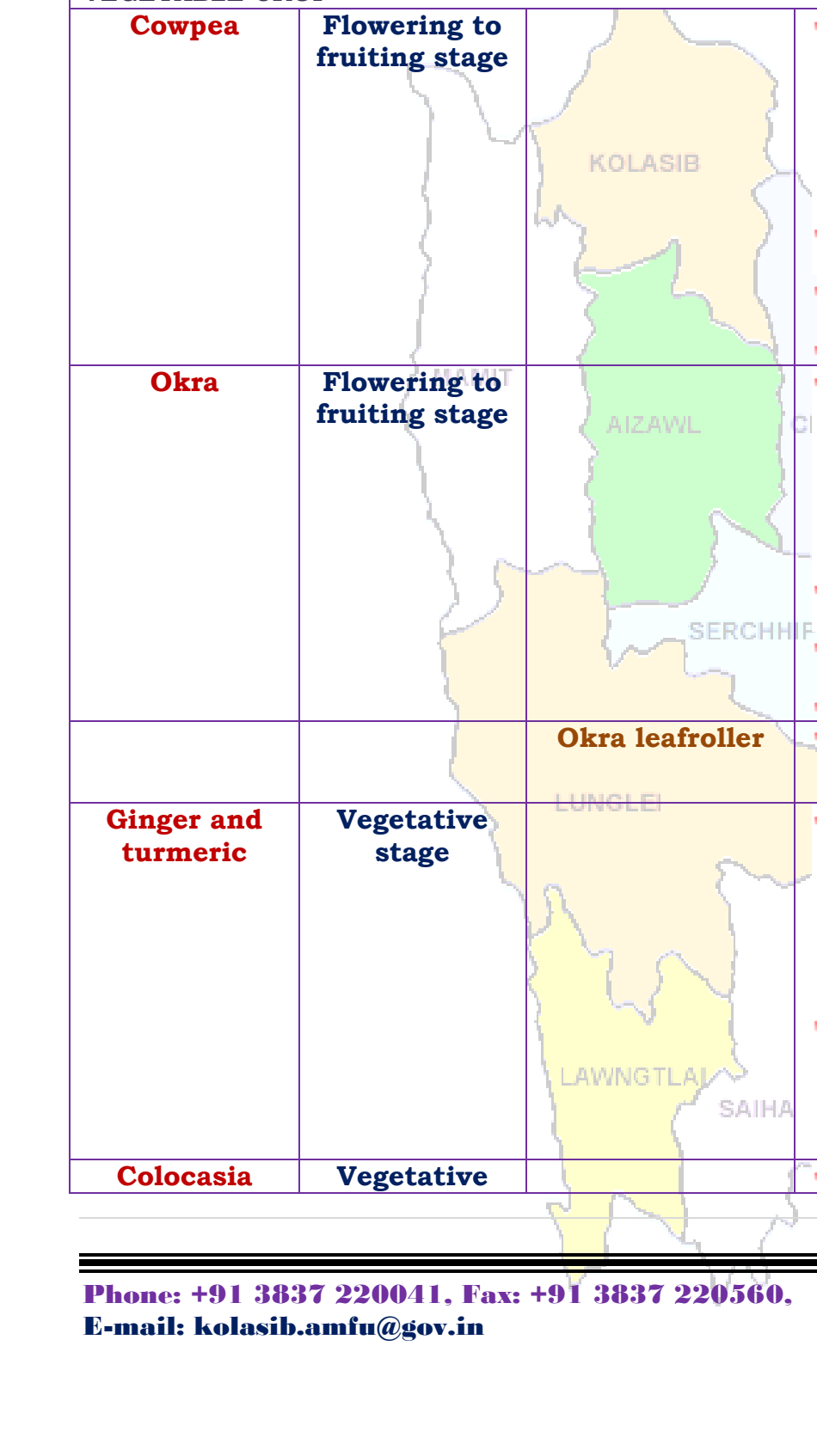
VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

Phone: +91 3837 220041, Fax: +91 3837 220560,
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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Kolasib **Period: 26 July – 30 July, 2017**

Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue: 25th July, 2017**

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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- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
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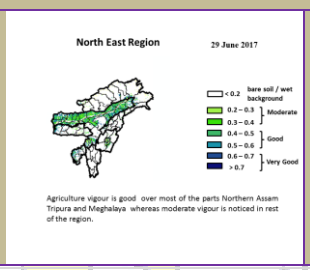
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

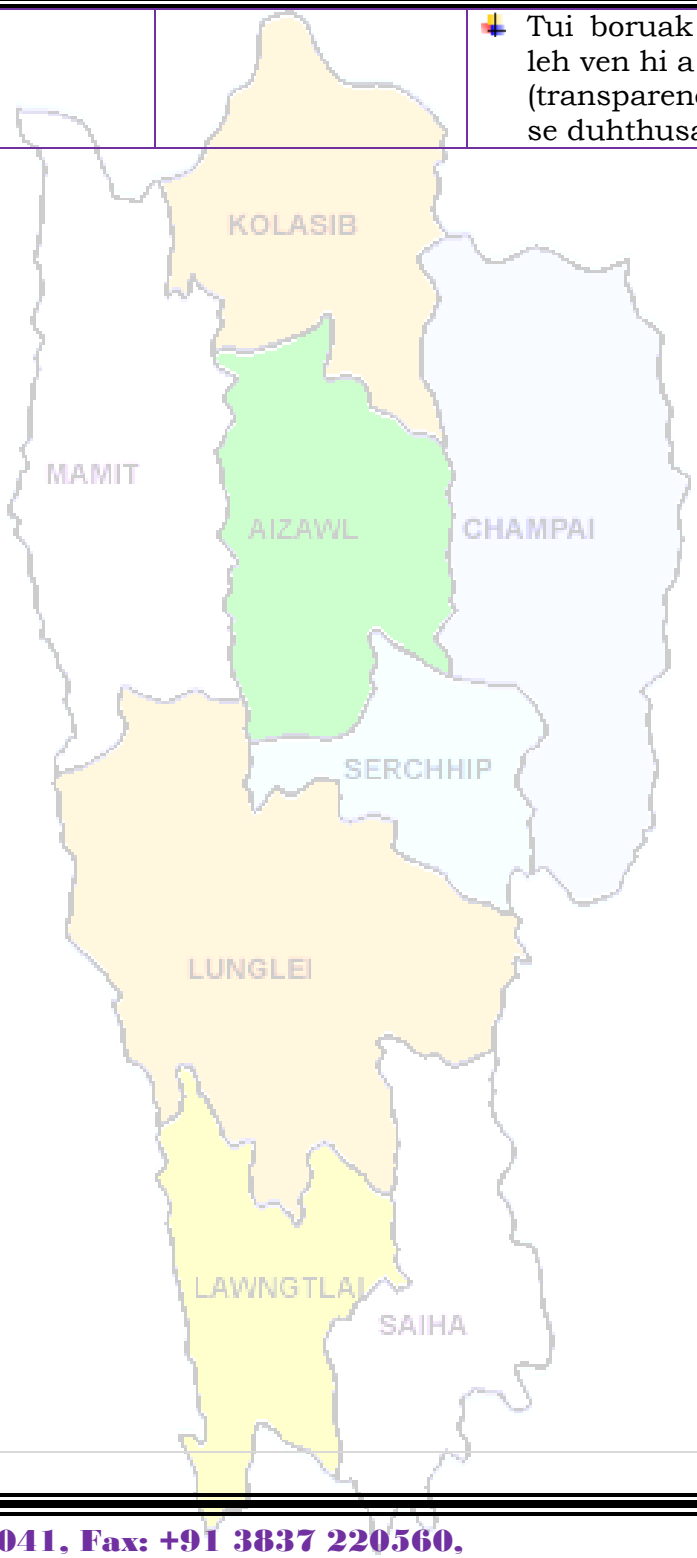
ANIMAL HUSBENDARY			
Pig	**All stages**		✦ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✦ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✦ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✦ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			➢ Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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:** 26 July – 30 July, 2017

Bulletin No: - 721/2017/ Bulletin/English **Date of issue:** 25th July, 2017

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	8	12	8	0	12
Max Temp (ºC)	32	31	31	33	33
Min Temp (ºC)	24	24	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	98	97	97
Min RH (%)	73	59	58	68	67
Wind Speed (KmpH)	4	2	2	2	2
*Wind Direction	E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*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): 26-29ºC
Minimum Tem. (ºC): 21-22ºC
Maximum RH (%): 95-99%
Minimum RH (%): 85-92%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2-3 km/hr

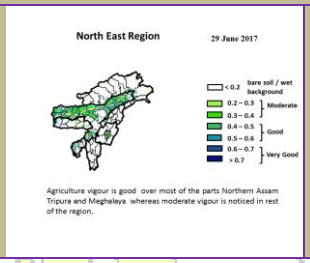
Rainfall: 45.9 mm

Weather forecast valid from 26th July, 2017 To 30th July, 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 31-33ºC and 23-24ºC. Maximum relative humidity is expected in the range of 97-98% and minimum may from 58-73%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: **40.0 mm**

NDVI for Mizoram

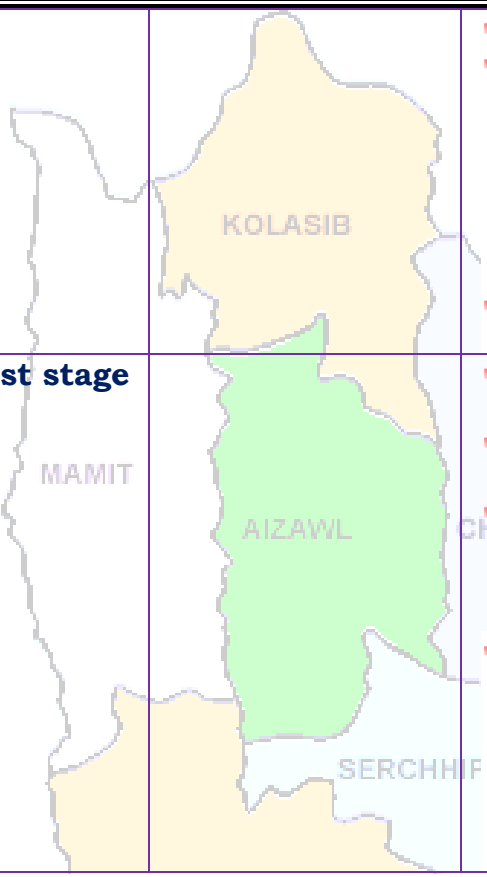
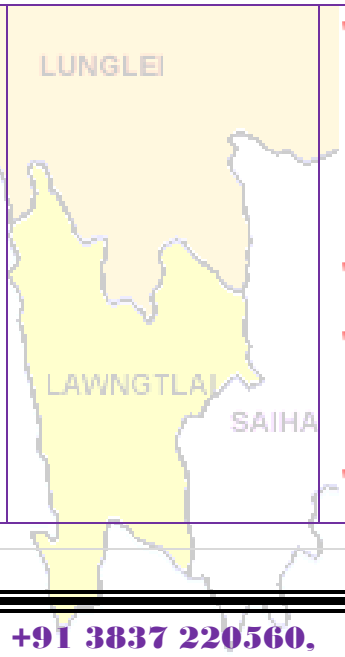


Moderately wet mildly dry/mildly wet conditions

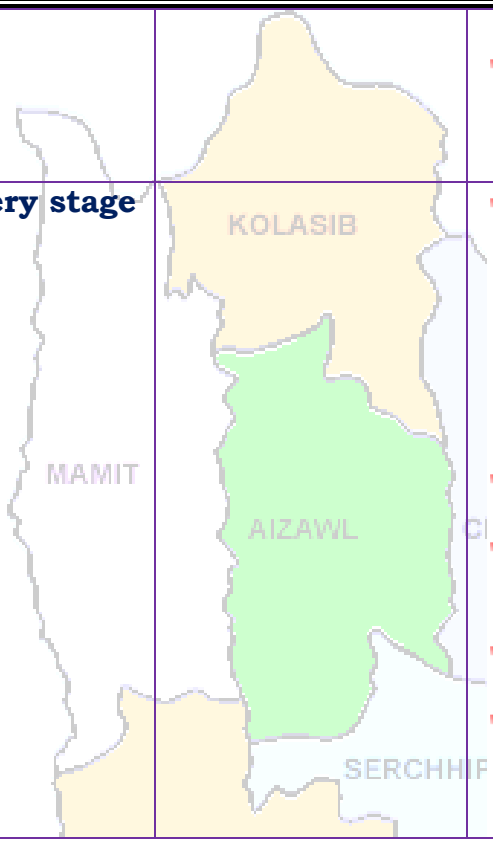
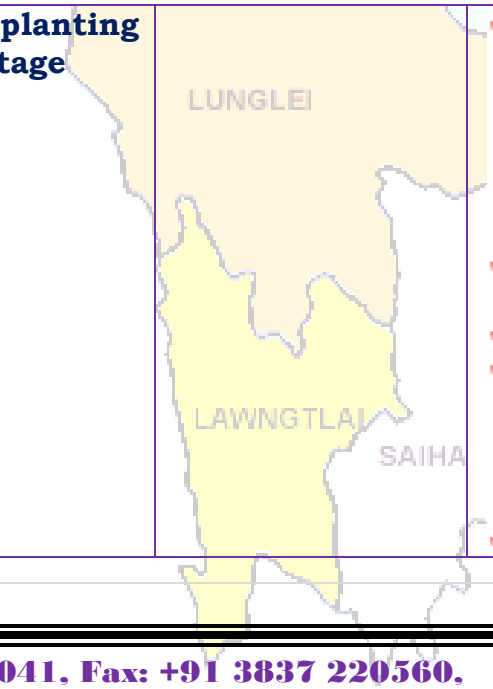
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. ✦ Standard-size trees should be spaced 12 to 25 feet apart and dwarf trees should be set 6 to 10 feet apart. The exact distance depends on the variety. The bigger the fruit, the farther the distance. ✦ Use split dose of fertilizer for normal growth and development.
		Citrus cancar	✦ Copper- based fungicides Copper Oxy Chloride 50%WP @ 2g/lt or bactericides Blitox 50 WG @ 0.01g/lt can provide a barrier against infection, but they will not treat an existing infection. ✦ Control minor infections limited to a small area of the tree by pruning away the affected parts. ✦ Severely infected trees should be destroyed to prevent infecting healthy trees nearby.
		Citrus leafminor and butterfly	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching stage when 1st instars predominate which coincides with I Fortnight of July.
Passion Fruit	**Vegetative stage**		✦ Trail semi hard wood stem to bower structure

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

			✦ Clean near the base of the plant. ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake.
Pineapple	**Harvest stage**		✦ A basal golden yellow coloration at the base is the sign of a ripe fruit. ✦ Fresh fruits destined for the local market are plucked when almost ripe. ✦ Fresh pineapples destined for export are harvested green-ripe (beginning to turn yellow-green at the base of the fruit). ✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
PLANTATION CROP			
COFFEE	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Medium to young seedling should be support by bamboo stake. ✦ Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. ✦ Mulching should be done with dry grasses near the tree base to conserve

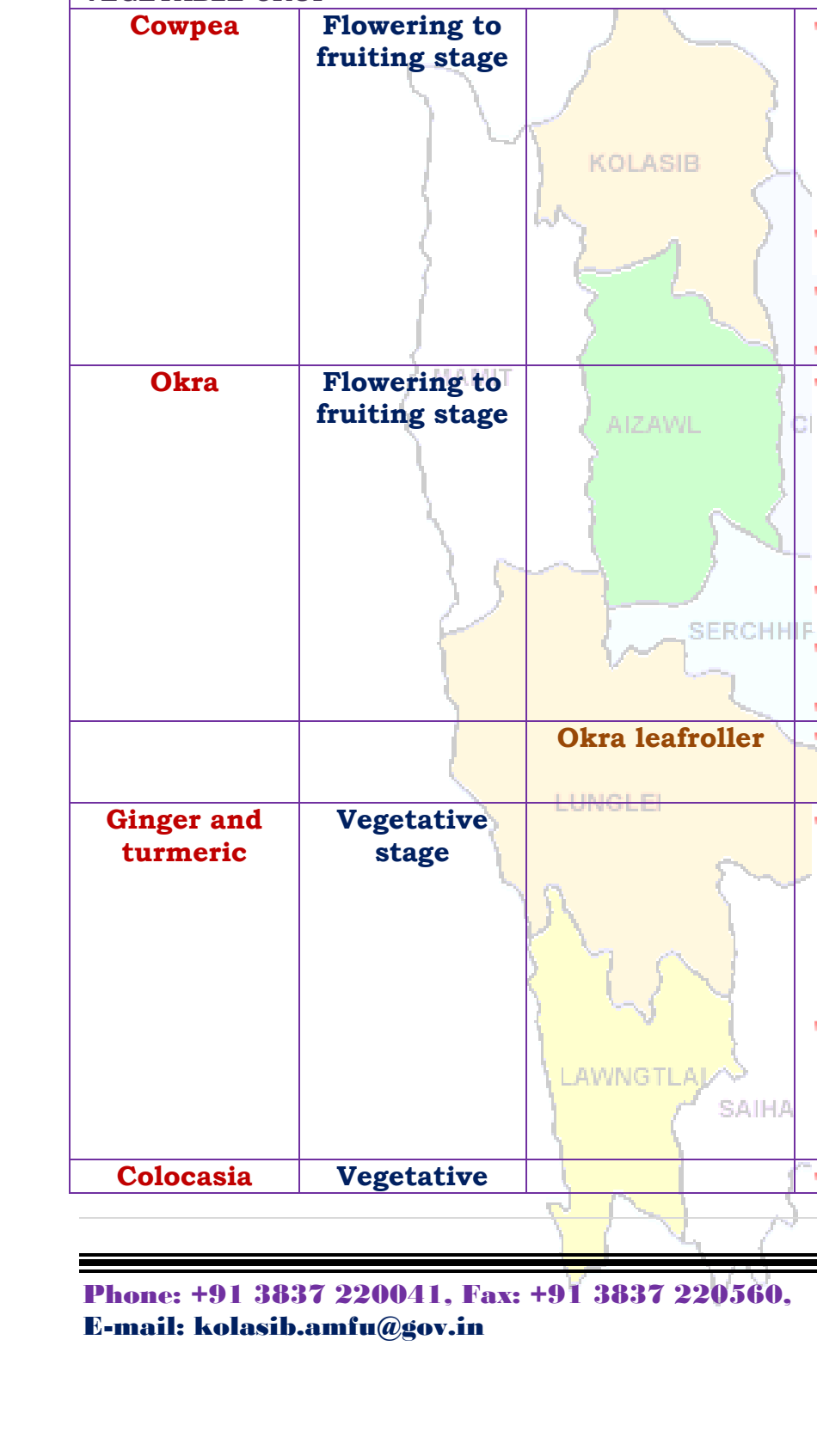
Phone: +91 3837 220041, Fax: +91 3837 220560,
E-mail: kolasib.amfu@gov.in

			soil moisture during winter. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition.
Rubber	**Nursery stage**		- According to forecast and past weather record, probability of rain will be less and temperature will be high. So soil moisture should be maintained in the field. If very shortage of rainfall will be observed then use grass mulch or straw mulch near to the base of the plant. - Medium to young seedling should be support by bamboo stake. - In the citrus belt, trees can be planted at any time; however, spring is the best time for container grown plants. - Make fire line to protect the young tree and seedlings. - 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			
Kharif Rice	**Transplanting stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Water level shall be maintained for better transplant. - Plough the field two to three times. - According to forecast probability of rain will be moderate to high and temperature will be less so run off and proper drainage should be maintained in the field. - Transplant 2-3 seedlings in one place

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

			for avoid gap filling. - Spacing should be 20 cm row to row and 15 cm plant to plant. - Keep some seedlings in nursery or corner of the field for gap filling.
		Rice thrips and rice leaf mites	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
***Jhum* Rice**	**Maximum tillering stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.
		Rice stem borer and leaf folder	- According to forecast probability of rain will be moderate to high and temperature will be less and humidity will high so possibility of rice thrips attack will high. - Spray Monocrotophos @ 1.5 ml/lt of water or Imidachloroprid 1.5 ml/lt of water for effective control.
Maize (*Jhum*)	**Physiological maturity stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - Don't use split dose of fertilizer for top dressing.
Kharif maize	**Tasseling to silking stage**		- According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water.

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

VEGETABLE CROP			
Cowpea	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
Okra	**Flowering to fruiting stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ Don't use split dose of fertilizer for top dressing. ✦ Trail semi hard wood stem to bower structure ✦ Clean near the base of the plant.
		Okra leafroller	✦ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Ginger and turmeric	**Vegetative stage**		✦ According to forecast and past weather record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. ✦ 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 for better development.
Colocasia	**Vegetative**		✦ According to forecast and past weather

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

	stage		record, probability of rain will be high and temperature will be less. So soil moisture should be maintained in the field. Proper drainage should be maintained. Make channel to drain out excess water. - 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 for better development.
ANIMAL HUSBENDARY			
Pig	**All stages**		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - 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**		- During either hot or heavy rainy condition, animal are advised to keep under shade. - Vaccination is mandatory for the cattle prior to monsoon to protect from disease like Anthrax, Black Quarter, Foot Mouth Disease, Duck Plague.
Poultry	**Litter management**		- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are

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

			the best ways to avoid infectious disease in poultry. Provide ample quantity of clean drinking water. 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. B complex with antibodies
		4th weeks	**Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring		Healthy fish seed may be procured from hatcheries for stocking in the pond. It should be ensured that the fish seed are active and free of any sign of diseases (white spot on muscle, sluggish, fin rot etc.)
			Spawn and fry may be reared in nursery and rearing pond respectively prior to stocking in grow-out pond to ensure better survival. The ideal stocking density of 8000/ha in grow-out pond may be followed to obtain fast growth and better survival.
			The fish should be fed with a mixture of rice bran and oil cake (1:1) at 5% of biomass body weight which is reduced to 2% as the fish grows. The fish should be fed preferable in the morning and evening daily. Water quality should be monitored regularly and transparency of 30-40 cm needs to be maintained.

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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com 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:** 26 July – 30 July, 2017

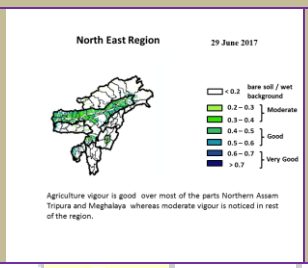
Bulletin No: - 721/2017/ Bulletin/Mizo **Date of issue:** 25th July, 2017

Parameters	26.07.2017	27.07.2017	28.07.2017	29.07.2017	30.07.2017
Rainfall (mm)	8	12	8	0	12
Max Temp (ºC)	32	31	31	33	33
Min Temp (ºC)	24	24	23	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	98	97	97
Min RH (%)	73	59	58	68	67
Wind Speed (KmpH)	4	2	2	2	2
*Wind Direction	E	E	S-E	S-E	S-E

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

STATUS OF MONSOON- April 1-30, 2017 (*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	26th July– 30th July, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-29ºC **Minimum Tem. (ºC):**21-22ºC **Maximum RH (%):**95-99% **Minimum RH (%):**85-92% **Wind Direction:** Southeasterly **Cloud cover:** Mainly cloudy **Wind speed:** 2-3 km/hr **Rainfall:** 45.9 mm	Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 31-33ºC a ni ang a. A vawh lai ber in 23-24ºC ni tura beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 58-73% 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:*** **40.0mm**
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	**A kui atanga a seng hun**		✦ Thlasik laia thlai bul khoro lutuk tur vennan chuan hnim hnah hring tlai bul velah dahkhawm tur ani. ✦ Thlai naupang deuah chuan chawlh kar tin a tui pek thin tur ani. ✦ Leia tha mamawh tawk a hmuh theihna turin a hmunhma a hnim awm te thlawhfai thin tur ani. ✦ 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.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		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** ✦ Thlai chi thlak hma in *Azospirillum* leh *Phosphobacterium a enkawl tur ani.* ✦ A chi hi December – January ah hmun zawl/rualrem 1.5 - 2.5 cm a in hlatin tlar mumal tak siam in chin tur ani. ✦ Chuan a chi chu lei tlem te a chhilh a buhpawla khuh tur ani. ✦ Nitin tui pek tur ani a, a sat lutuka loh nan niin a chhun loh nan zar hliah tur ani. ✦ 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

			Harvesting Stage Coffe rah hmin hi thlasik laiin an seng thin a ni. 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. Hmaih neih nuaih loh tur ani. Sneg hmaih te lakkhawma paih vek tur ani. Seng bang zawng zawng chu uluka taka paih fai vek tur ani. A thlai vennan a rah tlai ho chu paih vek tur ani. Hmun dam lutukah dah loh tur. Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. 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. 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. Hei hian a rawn to chhuah na tur atan a pui dawn a ni. A chi chu kan lei leh saah chuan kan dah ang. A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. 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

			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. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ 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. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ 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 . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ 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

			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. 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 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. 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. Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

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

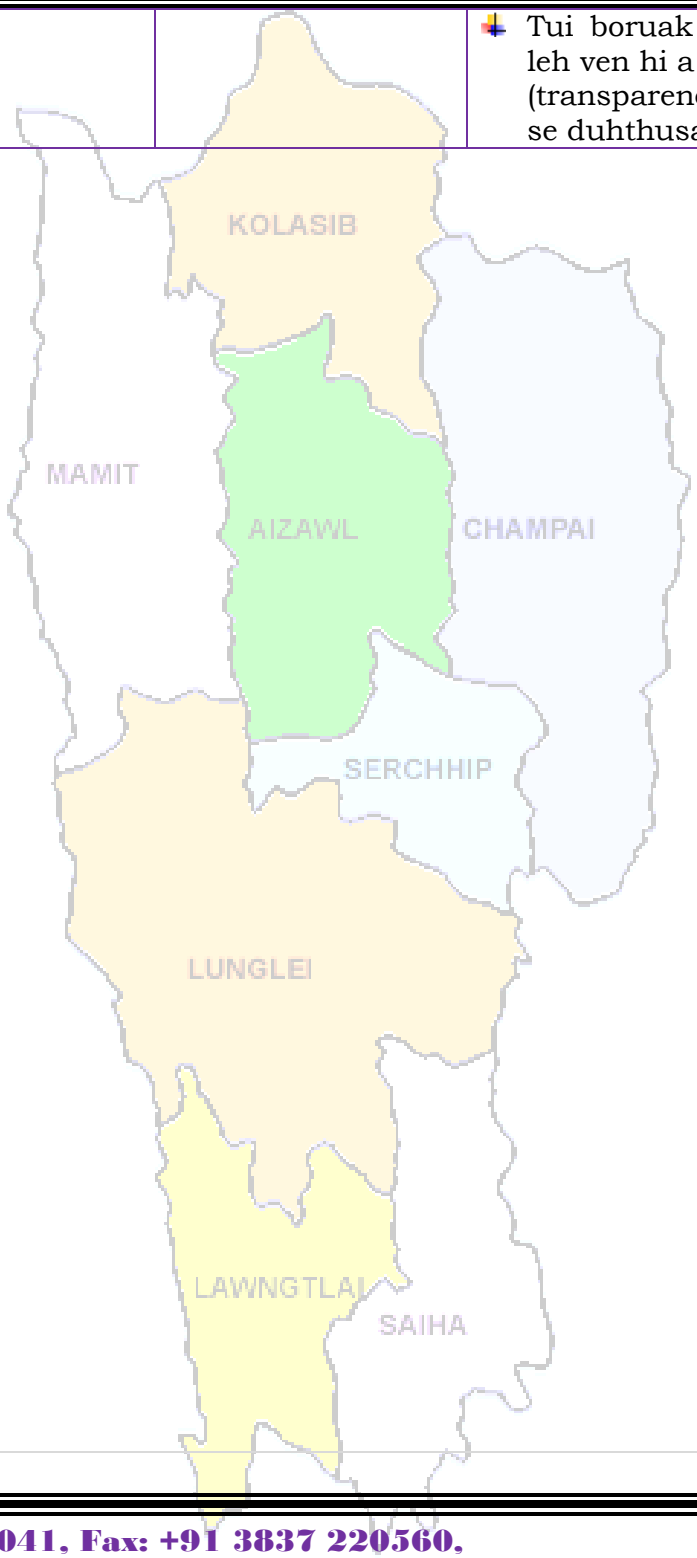
ANIMAL HUSBENDARY			
Pig	**All stages**		✚ Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. ✚ An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. ✚ Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga 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). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ 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. ✚ 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

			✦ Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. ✦ 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. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Stocking and monitoring (Sangha chhuah leh enkawl)		✦ Dila chhuah turin sangha no te hrisel tha hatchery atangin lei tur ani. Sangha note harh tha deuh leh natna (taksa var, harhlo, pangparh hmawr tawih) veilo tih hriat chian lei hram tum tur ani .
			✦ Sangha note piang hlim (Spawn) leh a mit lawk (fry) te chu dam khawchhuak (puitling) an tam zawk theina turin, dilpui (grow out) a chhuah hmain nursery leh rearing tuikhuah ah khawi hmasak phawt a tha. ✦ Sangha a lo than chak zawknan leh an dam thatna turin diltuikhuah hectare khat zel a zauah sangha note 8000 bawr vel chhuah hi a tha ber a ngaih ani.
			✦ Sangha te chu favai leh oik cake zat leh zat (1:1) a chawh pawlhin an taksa rihzawng za zel ah panga ang vel a chaw pek thin tur ani a, sangha a lo len deuh hnu ah za zel a pahnih angin an chaw pek tih hniam thin tur. ✦ Sangha te chu nitin zing leh tlaiah chaw pek thin tur ani.

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

			Tui boruak a that leh that loh enfiah leh ven hi a pawimawh a, tui nut zawng (transparency) chu 30-40 cm vel ni thei se duhthusam 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** Head & Sr. Scientist	kvkhnahthial@gmail.com	9862803750 9436154614
KVK, Kolasib	:	**Mr. Lalrosamga Khiangte** Head & Sr. Scientist	kvkkolasib@gmail.com	9436152440
KVK, Serchhip	:	**Mr. K. Laltlanmawia** Head & Sr. Scientist	kvkserchhip@gmail.com	9436146115 9615389293
KVK, Champhai	:	**Mrs. Lalrinawmi Renthlei** Head & Sr. Scientist	kvkkhawzawl@gmail.com	9436159788
KVK, Lawngtlai	:	**Dr. Michel Lallawmkimi** Head & Sr. Scientist	kvklawntlai@gmail.com	9436155858
KVK, Saiha	:	**Dr. Vanlalhruaia Hnampe** Head & Sr. Scientist	kvksaiha@gmail.com	8974656509
KVK, Mamit	:	**Dr. Samuel Lalliansanga** Head & Sr. Scientist	kvkmamit@gmail.com	9436147625
KVK, Aizawl	:	**Dr. K. P. Chaudhary** Head & Sr. Scientist	Kpchy@rediffmail.com kvkaizawl@rediffmail.com	9436351669

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