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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	5	8	19	6	3
Max Temp (°C)	32	32	32	32	33
Min Temp (°C)	22	21	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	98	97	98	99	98
Min RH (%)	62	72	75	71	72
Wind Speed (KmpH)	2	2	2	2	2
***Wind Direction**	N-E	E	E	E	N-E

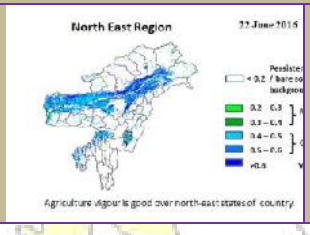
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	**Champhai- 239.49mm (250.30mm)**	**Saiha- 109.52 mm (87.2mm)**	**Kolasib- 352.38mm (380.9mm)**
Lawngtlai-321.51mm (285.5mm)	**Lunglei-344.00mm (186.21mm)**	**Mamit-449.48mm (442.80mm)**	**Serchhip-411.72mm (25.9mm)**

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 29.2-32.1°C and 21.4-23.6°C respectively. Mainly clear sky was observed. Wind direction is southeasterly. Maximum RH observed 71-85% & minimum of 40-71%. Rainfall recorded for the past three days is **00.80mm. (Source-NICRA, AWS)**	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 32-33°C and 21-22°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 62-75%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 41.0 mm**

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

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			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

Phone: +91 3837 220041, Fax: +91 3837 220560,
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turmeric	**stage**		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 29.2-32.1^{0}C leh a vawh lai berin 21.4-23.6^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 71-85% leh a hniam lai 40-71% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.80mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 32-33^{0}C a ni ang a.A vawh lai ber in 21-22^{0}C ni tur ah beisei a ni.RH san lai berin of 97-99% leh a hniam lai berin 62-75% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:*** **41.0mm**

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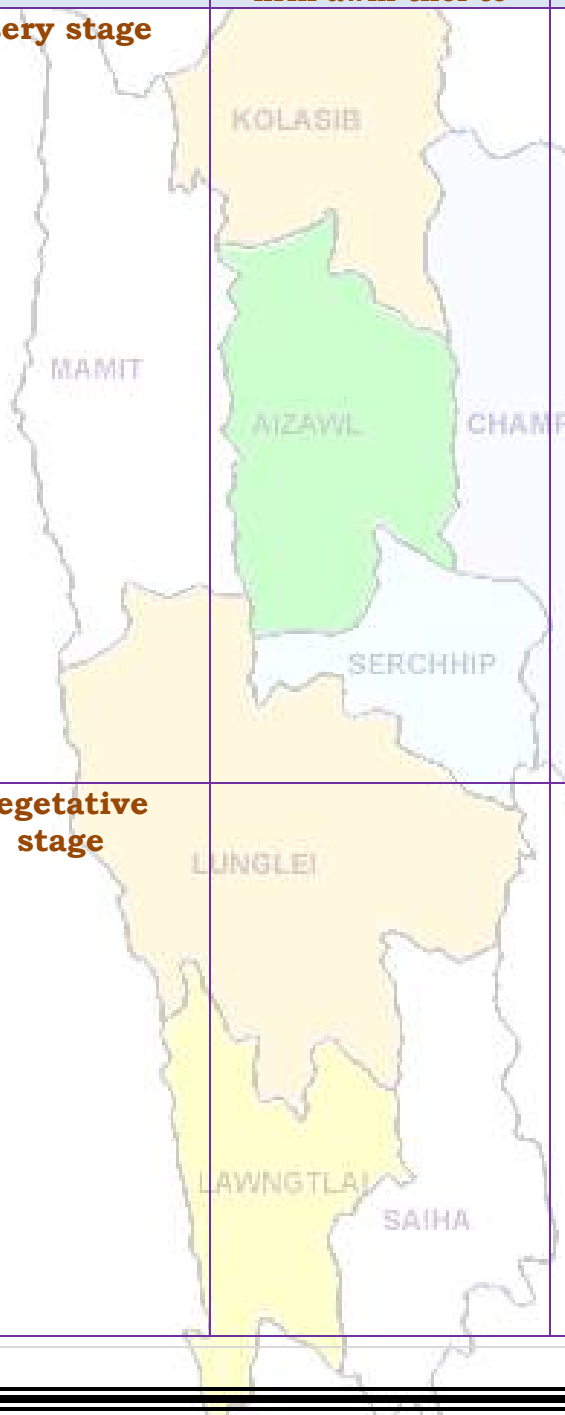
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah



Phone: +91 3837 220041, Fax: +91 3837 220560,
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			600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. - Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.

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

Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A

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

			chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a

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

			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		➢ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ➢ Lei chu boruak kal that nan laihphut thin tur. ➢ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	➢ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	➢ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ➢ Thla ruk an tlin hunah vaccine lak tan tur. ➢ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	11	8	9	10	7
Max Temp (ºC)	31	31	33	33	33
Min Temp (ºC)	22	22	22	23	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	93	98	98	98
Min RH (%)	69	64	63	63	63
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	S-W	E	S-E	S-E

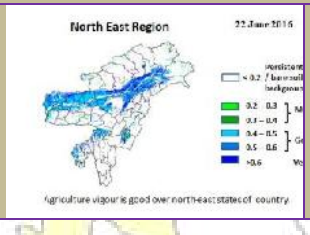
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 26.4-29.9ºC and 19.4-21.5ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 81-96% & minimum of 42-65%. Rainfall recorded for the past three days is **16.30mm. (Source- mosdac.gov.in)**	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 31-33ºC and 22-23ºC. Maximum relative humidity is expected in the range of 93-98% and minimum may from 63-69%. Wind direction would be southwesterly to easterly 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



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

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			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

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			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. ✚ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		✚ Land preparation or sowing in pits ✚ Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. ✚ Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

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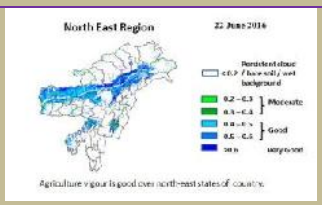
Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 26.4-29.9^{0}C leh a vawh lai berin 19.4-21.5^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 81-96% leh a hniam lai 42-65% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **16.30mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-33^{0}C a ni ang a.A vawh lai ber in 22-23^{0}C ni tur ah beisei a ni.RH san lai berin 93-98% leh a hniam lai berin 63-69% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:* 45.0mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

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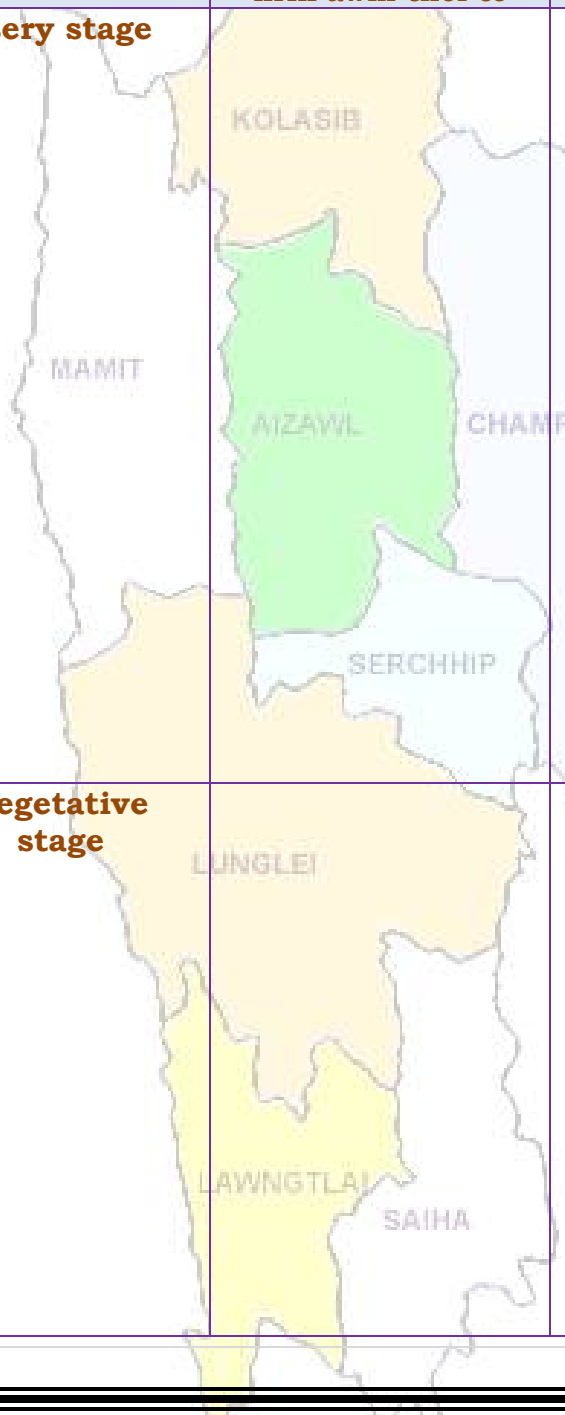
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah



Phone: +91 3837 220041, Fax: +91 3837 220560,
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			600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. - Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.

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

Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a

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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		➢ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ➢ Lei chu boruak kal that nan laihphut thin tur. ➢ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	➢ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	➢ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ➢ Thla ruk an tlin hunah vaccine lak tan tur. ➢ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

Phone: +91 3837 220041, Fax: +91 3837 220560,
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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	5	0	12	7	5
Max Temp (ºC)	30	30	31	31	31
Min Temp (ºC)	22	21	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	97	97	98	99	98
Min RH (%)	80	81	79	79	83
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

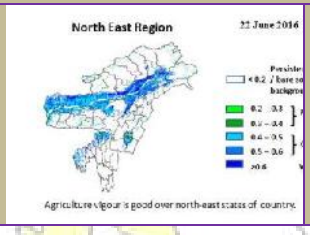
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 26.1-29.6ºC and 18.3-20.8ºC respectively. Mainly clear sky was observed. Wind direction is southeasterly. Maximum RH observed 75-89% & minimum of 52-75%. Rainfall recorded for the past three days is **12.80mm. (Source- mosdac.gov.in)**	There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 30-31ºC and 21-22ºC. Maximum relative humidity is expected in the range of 97-98% and minimum may from 79-83%. Wind direction would be northeasterly to easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 29.0 mm**

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

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

			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

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			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

Phone: +91 3837 220041, Fax: +91 3837 220560,
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turmeric	**stage**		plant and cut dead branches. ✚ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		✚ Land preparation or sowing in pits ✚ Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. ✚ Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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Dr. S.B. Singh	:	Joint Director	**basantasinghsoibam@rediffmail.com**
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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

District: Saiha **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
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Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	97	97	98	99	98
Min RH (%)	80	81	79	79	83
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

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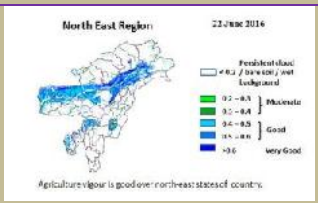
Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 26.1-29.6^{0}C leh a vawh lai berin 18.3-20.8^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 75-89% leh a hniam lai 52-75% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **12.80mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-31^{0}C a ni ang a.A vawh lai ber in 21-22^{0}C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 79-83% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:*** **29.0mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
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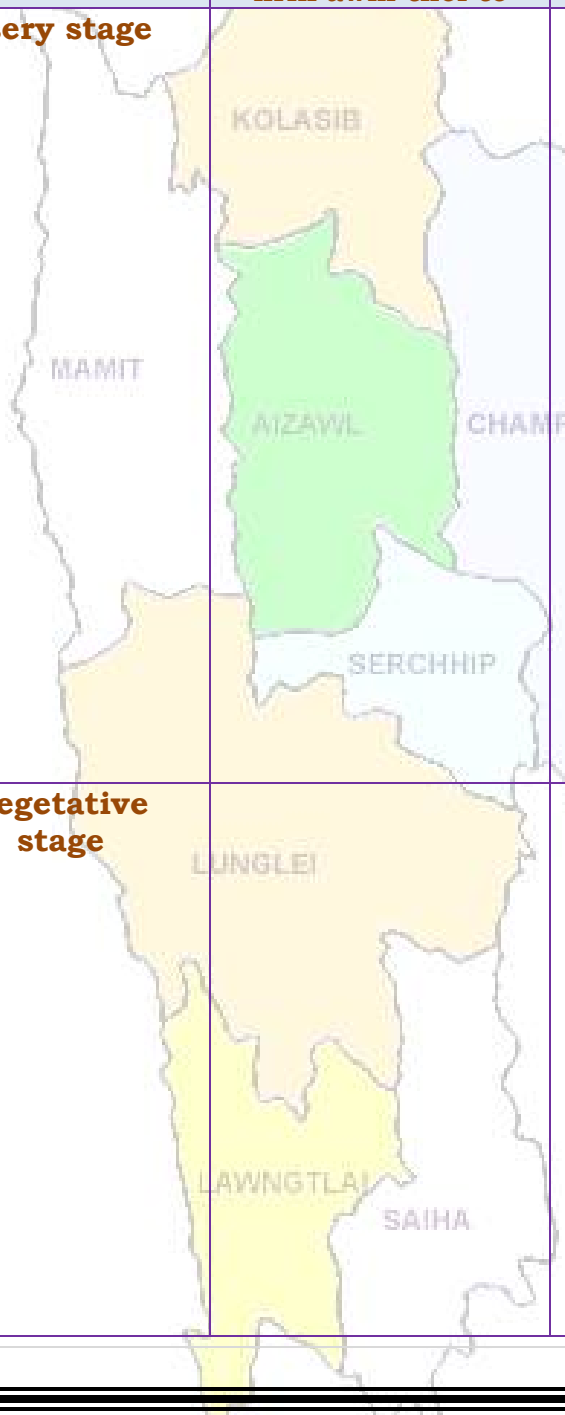
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah



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

			600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. - Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.

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

Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		➢ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ➢ Lei chu boruak kal that nan laihphut thin tur. ➢ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	➢ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	➢ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ➢ Thla ruk an tlin hunah vaccine lak tan tur. ➢ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

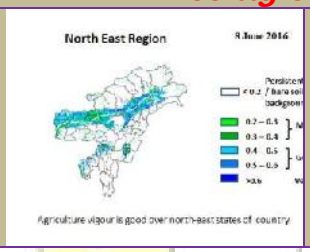
Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	5	4	10	8	6
Max Temp (ºC)	31	31	31	32	32
Min Temp (ºC)	20	20	21	21	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	100	100	99	100	99
Min RH (%)	65	77	78	78	76
Wind Speed (KmpH)	0	2	2	2	0
*Wind Direction	N-E	S	E	N-E	N-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- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
	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 20-22ºC. Maximum relative humidity is expected in the range of 99-100% and minimum may from 65-78%. Wind direction would be northeasterly to southerly to easterly and northeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **33.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

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

			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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

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

District: Serchhip **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	5	4	10	8	6
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Min RH (%)	65	77	78	78	76
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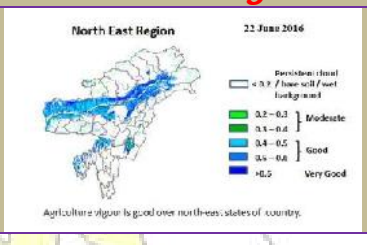
*Wind Direction	N-E	S	E	N-E	N-E

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

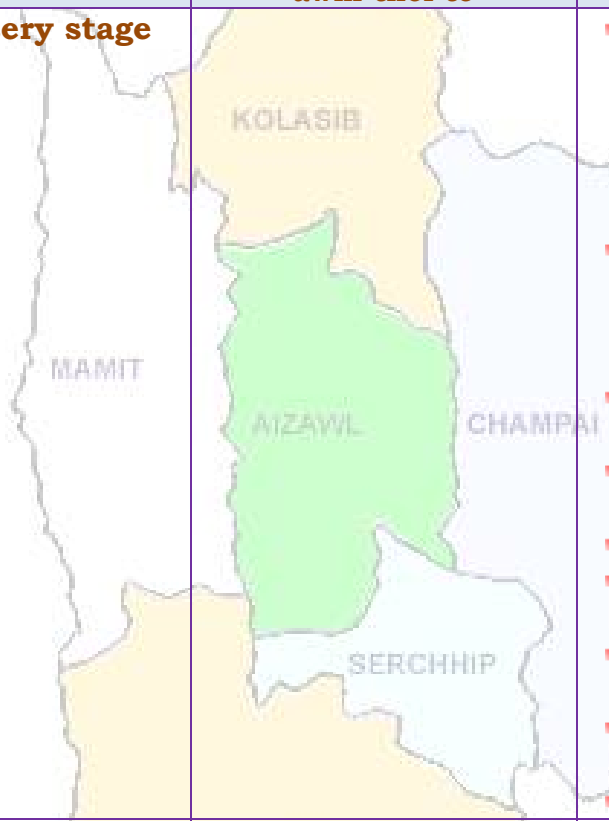
STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm) Champhai- 239.49mm (250.30mm) Saiha- 109.52 mm (87.2mm) Kolasib- 352.38mm (380.9mm)

Lawngtlai- 321.51mm (285.5mm) Lunglei-344.00mm (186.21mm) Mamit-449.48mm (442.80mm) Serchhip-411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32^{0}C a ni ang a.A vawh lai ber in 20-22^{0}C ni tur ah beisei a ni.RH san lai berin 99-100% leh a hniam lai berin 65-78% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga hhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:*** **33.0mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

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

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur.

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

			➢ Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	**A par lai**		➢ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ➢ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ➢ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ➢ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	➢ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		➢ Ni 7 danah tui chu tha taka pek tur. ➢ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ➢ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur.** **2. Phunsawn hnuah tui tha taka pek tur.**	➢ A kung bulthut ah hnim chheh darh tur. ➢ A khat tawkin tui pek tur. ➢ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		➢ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ➢ Lei chu boruak kal that nan laihphut thin tur. ➢ A chin atanga ni 20-25 ah bean kung chu mau in a

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

			zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. ✚ A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		✚ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). ✚ Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	✚ A chi tha leh khat tha chauh hman tur. ✚ Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. ✚ Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	✚ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. ✚ Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		✚ Lei chu vawi 2/3 laihphut phawt tur. ✚ A chi chu a line indawt a chin tur ✚ A chi chu kg khatah Thiram 4g a chiah tur. ✚ Hectare khatah buh chi chu 20-25kg hman tur.

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

			Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. Lei chu boruak kal that nan laihphut thin tur. Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) Thla ruk an tlin hunah vaccine lak tan tur. Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.

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

		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	11	4	18	10	8
Max Temp (oC)	31	31	31	32	32
Min Temp (oC)	21	21	22	22	23
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	99	99	98
Min RH (%)	70	69	68	68	65
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	W	E	S-E	S-E

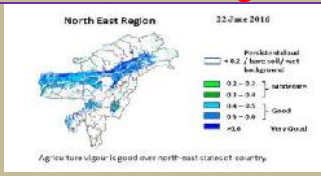
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip- 411.72mm (25.9mm)

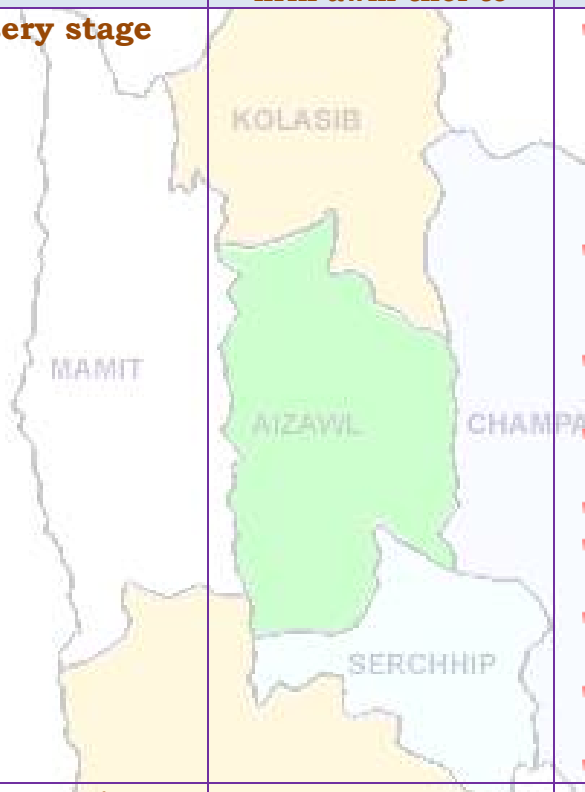
Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 29.8-31.4^{0}C leh a vawh lai berin 21.8-23.0^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 70-85% leh a hniam lai 41-67% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **13.00 mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32^{0}C a ni ang a.A vawh lai ber in 21-23^{0}C ni tur ah beisei a ni.RH san lai berin 96-99% leh a hniam lai berin 65-70% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:*** **51.0mm**

NDVI for Mizoram



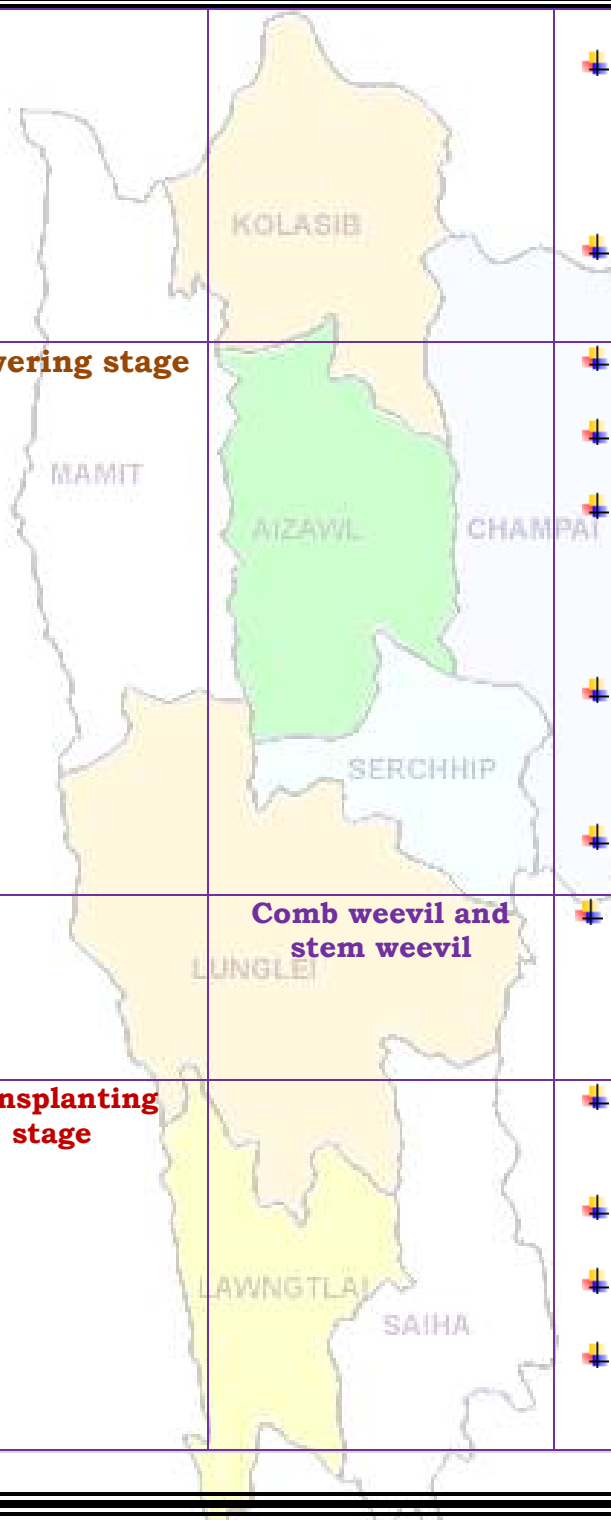
NDVI of soil moisture for Mizoram is moderate wet condition.

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

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah

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

			600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. - Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.



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

Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur.** **2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A

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

			chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. + A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		+ Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). + Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	+ A chi tha leh khat tha chauh hman tur. + Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. + Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	+ A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. + Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		+ Lei chu vawi 2/3 laihphut phawt tur. + A chi chu a line indawt a chin tur + A chi chu kg khatah Thiram 4g a chiah tur. + Hectare khatah buh chi chu 20-25kg hman tur. + Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve

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

			in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		✚ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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

GRAMIN KRISHI MAUSAM SEWA

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

District: Aizawl **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	11	4	18	10	8
Max Temp (ºC)	31	31	31	32	32
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Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	99	99	98
Min RH (%)	70	69	68	68	65
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	N-E	W	E	S-E	S-E

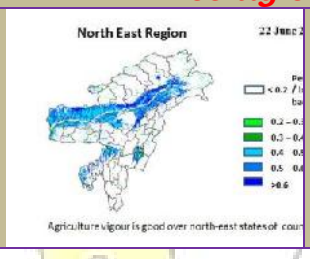
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 29.8-31.4ºC and 21.8-23.0ºC respectively. Mainly clear sky was observed. Wind direction is southeasterly. Maximum RH observed 70-85% & minimum of 41-67%. Rainfall recorded for the past three days is **13.00 mm. (Source-mosdac.gov.in)**	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 21-23ºC. Maximum relative humidity is expected in the range of 96-99% and minimum may from 65-70%. Wind direction would be Northeasterly to westerly to easterly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 51.0 mm**

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

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

			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. ✚ Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		✚ Land preparation or sowing in pits ✚ Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. ✚ Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	8	9	12	18	13
Max Temp (⁰C)	30	31	31	31	31
Min Temp (⁰C)	21	21	21	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	97	96	96	96
Min RH (%)	70	73	70	72	69
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	W	S-E	S-E	S-E

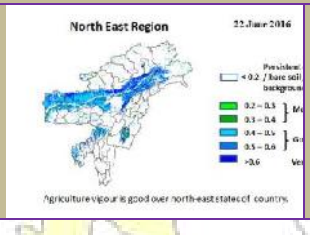
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 25.8-27.2⁰C and 16.8-17.6⁰C respectively. Partially clear sky was observed. Wind direction is southeasterly. Maximum RH observed 74-81% & minimum of 41-69%. Rainfall recorded for the past three days is **15.70mm. (Source- mosdac.gov.in)**	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 30-31⁰C and 21-22⁰C. Maximum relative humidity is expected in the range of 96-97% and minimum may from 69-73%. Wind direction would be easterly to westerly and southeasterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 60.0 mm**

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

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			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

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			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)

District: Champhai **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
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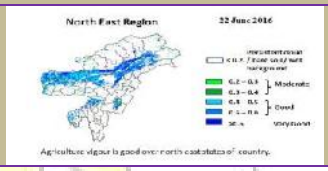
Max RH (%)	97	97	96	96	96
Min RH (%)	70	73	70	72	69
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	W	S-E	S-E	S-E

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- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip- 411.72mm (25.9mm)

Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 25.8-27.2^{0}C leh a vawh lai berin 16.8-17.6^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 74-81% leh a hniam lai 41-69% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **15.70mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-31^{0}C a ni ang a.A vawh lai ber in 21-22^{0}C ni tur ah beisei a ni.RH san lai berin 96-97% leh a hniam lai berin 69-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:* 60.0mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

Phone: +91 3837 220041, Fax: +91 3837 220560,
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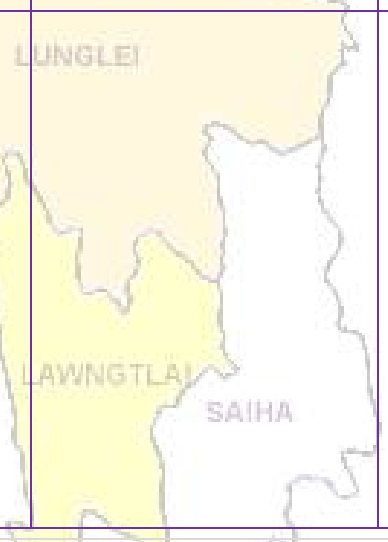
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur.

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		✚ Balhla kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. ✚ A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		✚ A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. ✚ A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. ✚ Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. ✚ Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in

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

			kumkhat chhungin pek tur.
Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a

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

			zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh

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

			tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		✚ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	10	8	8	15	10
Max Temp (ºC)	30	30	32	32	32
Min Temp (ºC)	21	21	21	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	97	96	98	98	98
Min RH (%)	73	66	63	65	63
Wind Speed (KmpH)	2	0	2	2	2
*Wind Direction	E	W	E	S-E	S-E

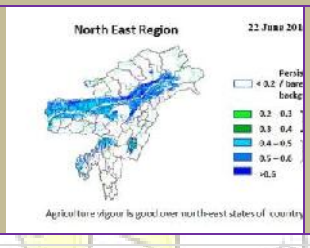
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
The temperature range for maximum and minimum were 29.1-30.8ºC and 21.3-22.6ºC respectively. Mainly cloudy sky was observed. Wind direction is southeasterly. Maximum RH observed 79-94% & minimum of 58-68%. Rainfall recorded for the past three days is **20.60mm. (Source- mosdac.gov.in)**	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 30-32ºC and 21-22ºC. Maximum relative humidity is expected in the range of 96-98% and minimum may from 63-73%. Wind direction would be easterly to easterly and southeasterly with the wind speed of 0-2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:* 51.0 mm**

NDVI for Mizoram



NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

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

			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
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District: Kolasib **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

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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.

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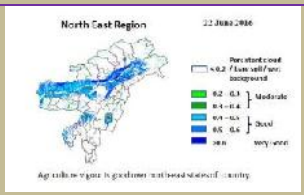
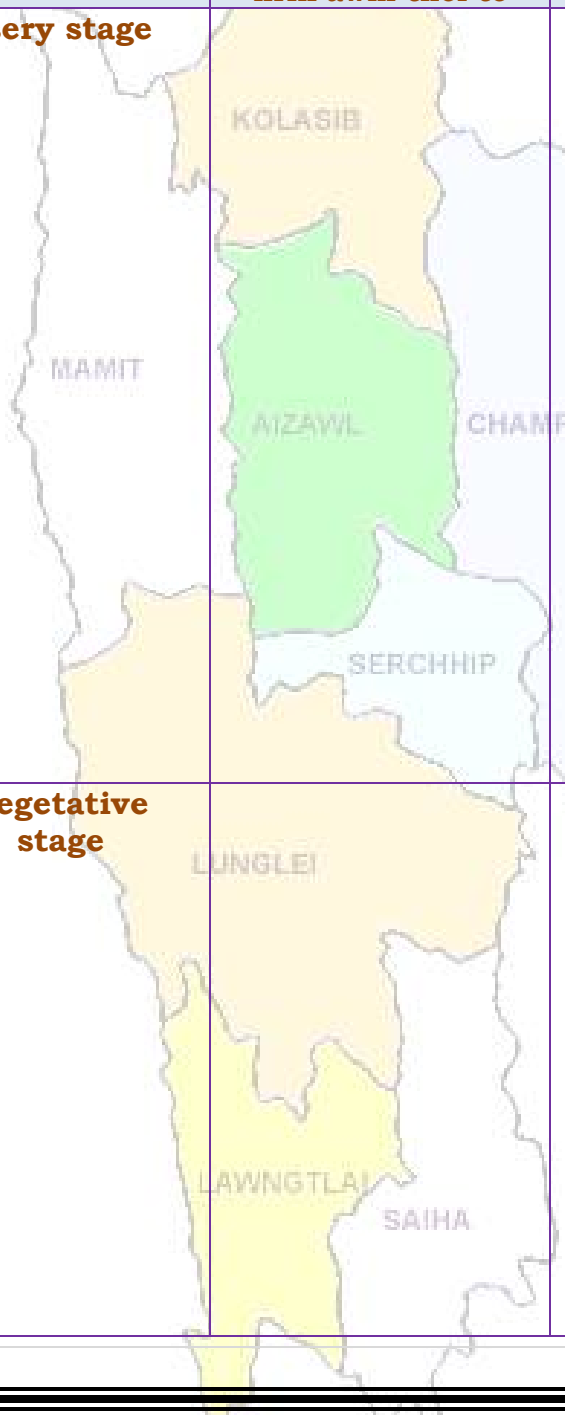
Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan
Khua a lum lai berin 29.1-30.8^{0}C leh a vawh lai berin 21.3-22.6^{0}C ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin observed 79-94% leh a hniam lai 58-68% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **20.60mm** ani. **(Source- Mosdac.gov.in)**	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32^{0}C a ni ang a.A vawh lai ber in 21-22^{0}C ni tur ah beisei a ni.RH san lai berin 96-98% leh a hniam lai berin 63-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:* 51.0mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

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

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		✚ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ✚ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ✚ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ✚ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ✚ Certified thlai chi chauh hman tur. ✚ Ser kung bula tuitling chu paihfai vek tur. ✚ A tiak inchen tlang chauh phun atan hman tur. ✚ A zar tliak leh hnip chu paih fai zel tur. ✚ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ✚ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah



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E-mail: kolasib.amfu@gov.in

			600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatah 600:200:100g a pek tur. - Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. - A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. - A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	- Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		- A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. - A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. - Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.

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

Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur. 2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm a zau ah a phunna tur siam tur. A

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

			chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen tihpawlh tur. Nitrogen chu a dose chanve in a

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

			chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		➢ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ➢ Lei chu boruak kal that nan laihphut thin tur. ➢ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	➢ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	➢ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ➢ Thla ruk an tlin hunah vaccine lak tan tur. ➢ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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:** 25 June - 29 June, 2016

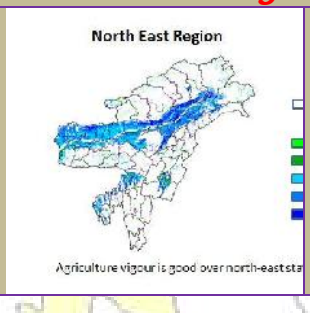
Bulletin No: - 613/2016/ Bulletin/English **Date of issue:** 24th June, 2016

Parameters	25.06.2016	26.06.2016	27.06.2016	28.06.2016	29.06.2016
Rainfall (mm)	4	4	9	3	5
Max Temp (ºC)	31	31	32	32	32
Min Temp (ºC)	22	22	22	22	22
Cloud Coverage	Mainly cloudy	Mainly cloudy	Partially clear	Partially clear	Partially clear
Max RH (%)	95	95	95	96	96
Min RH (%)	73	74	72	72	76
Wind Speed (KmpH)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (25.9mm)

Weather summary of the past three days	Weather forecast valid from 25th June, 2016 To 29th June, 2016.
	There are chances of light rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 31-32ºC and 22ºC. Maximum relative humidity is expected in the range of 95-96% and minimum may from 72-76%. Wind direction would be easterly with the wind speed of 2 km per hour. Mainly cloudy sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **25.0 mm**
NDVI for Mizoram	 NDVI of soil moisture for Mizoram is moderate wet condition.

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
Khasi Mandarin and acid lime	**Nursery stage**		**By seeds:** Seed should be sown in the nursery immediately after extraction in to a depth 1.5 to 2 cm extraction at 10x5 cm distance. Seedlings are planted in secondary bed or polythene bags at 4-6 leaf stages. Potting mixture of soil, sand and FYM or compost should be in proper ratio. Application of split dose of fertilizer 600: 200:100 (g/pt). Only certified seed should be used. Stagnation of water in beds should be avoided. Seedling of uniform height should be selected for planting. Hooked or bench rooted plants should be discarded. Plant protection measures should be followed.
Oil plam	**Vegetative stage**		Cleaning near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt). Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.
Banana	**Flowering stage**		Clear near base of the plant and cut unwanted branches. Application of split dose of fertilizer 600: 200:100 (g/pt).

Phone: +91 3837 220041, Fax: +91 3837 220560,
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			✚ Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard. ✚ Pruning on a regular basis removes unwanted or a sucker, keep production mats in optimum condition, saves fertilizer, reduces pest and disease. ✚ Fruits are harvested when they attain full size, develop attractive yellow colour.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Passion Fruit	**Transplanting stage**		✚ High yielding mother vine with good quality fruits and free of virus diseases should be selected to provide cuttings. ✚ A cutting should contain at least 3 buds and must be planted in sand beds. ✚ Immediately after planting these should be kept inside a high humid chamber made out of bamboo and polythene. **Grafting:** ✚ The root stock of yellow Passion fruit is planted in polythene sleeves and the section from Rahangala hybrid is grafted using wedge or approach method of grafting.
Pineapple	**Flowering stage**		✚ Apply flowering inducing chemical (Ethrel 10 PPM+2% urea+0.04% Sodium Carbonate) should be applied in the heart of the plant. In evening and only when plants have at least 32 leaves. ✚ The flowering emergence will come out after 55-60 days after chemical spraying. ✚ Apply split doses of fertilizer @ 60: 50:60 g per plant. ✚ Remove all unwanted leaves, branches and

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

			weed near to the plant.
Colocasia	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
		Corm borer	✚ Carbofuran 3G @1.5 kg a.i./ha applied in root zone when egg laying ooze is observed at plant base.
Cucurbitaceous crop	**Harvesting stage**		✚ In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Harvest all mature fruit.
Okra	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging.
Cowpea	**Vegetative stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Earthing up soil at base of the plant along with split doses of fertilizer. ✚ Proper drainage is required to avoid water logging. ✚ Mulching with black polythene is found beneficial for both reducing the weed and increasing the yield.
Brinjal	**Flowering stage**		✚ Remove unwanted plant near base of the plant and cut dead branches. ✚ Pre emergence application of Basalin

Phone: +91 3837 220041, Fax: +91 3837 220560,

E-mail: kolasib.amfu@gov.in

			@0.5 ml/lit of water for reduce grass type weed. - Mulching with black polythene film reduces weed growth, increases the crop growth. - Split dose of fertilizer application @ 50kg/ha urea.
Rice	**Transplanting stage**		- Land preparation is done by ploughing, harrowing, and levelling the field to make it suitable for crop establishment. - Ploughing should be done 3-4 weeks prior to sowing. - Select disease free seedling with 3-5 leaf stage. - Treat seedling with Bavistin 50 WP @ 0.1% (2 g/lt) solution. - After ploughing, harrowing the field should be done twice, with one week gap between the two. First harrowing should be done after 1 week of ploughing. The second harrowing should be done across the first harrowing. - Under good management and adequate nitrogen levels, the optimum spacing for rice varieties should be around 20x15 cms both for kharif and rabi crops. - Transplanting two to three seedlings per hill under normal conditions is enough. Remove the tip of rice seedling which reduces stem borer infestation.
Maize	**Vegetative stage**		- Remove unwanted plant near base of the plant and cut dead branches. - Earting up of soil along with fertilizer mixture. - Foliar spray of 0.1 % Endosulfan {2 ml (35 EC) in litre water} at 30 days after germination is very effective against stem borer.
Ginger and	**Vegetative**		- Remove unwanted plant near base of the

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

turmeric	**stage**		plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1arge effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
Kharif pulses (Green gram, Black gram and Rajma)	**Sowing stage**		- Land preparation or sowing in pits - Inorganic fertilizer like Urea, SSP and MOP @ 20: 60: 40 kg. - Use PSB 2g/kg for better germination.
Pig	**All stages**	**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**	**Foot and Mouth Disease (FMD)**	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	**Adult stage**	**Ranikhet Disease.**	• F1 vaccine at (1-6) days of birth and R_2B vaccine for adult birds.
	Early stage	**Coccidiosis**	1. Amprolium or coccidiostat

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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Senior Research Fellow (Mizo language Translator)	mamamralte@yahoo.com
Mrs. Monika Bora	:	Meteorological Observer (IMD)	boramonika@rediffmail.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@gmail.com
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

Phone: +91 3837 220041, Fax: +91 3837 220560,
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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: Lawngtlai **Period:** 25 June - 29 June, 2016

Bulletin No: - 613/2016/ Bulletin/Mizo **Date of issue:** 24th June, 2016

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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- May 1-31, 2016 (*Percent of deviation from normal in parenthesis*)

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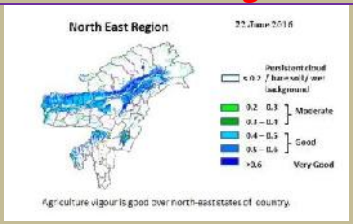
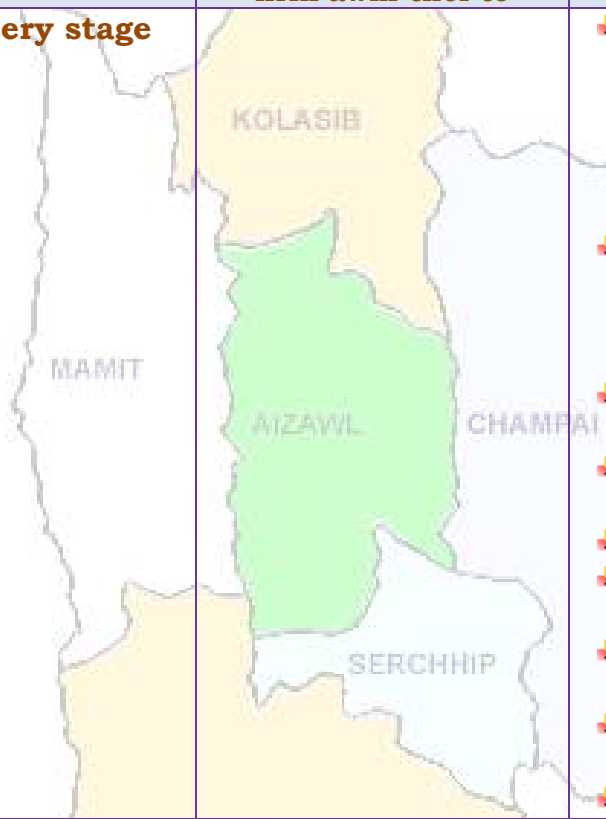
Ni thum kaltha sik leh sa dinhmun tlangpui	June 25, 2016 atanga June 29, 2016 sik leh sa dinhmun hmuhlawk dan	
	Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32^{0}C a ni ang a.A vawh lai ber in 22^{0}C ni tur ah beisei a ni.RH san lai berin 95-96% leh a hniam lai berin 72-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni. ***Weekly cumulative rainfall:*** **25.0mm**	
NDVI for Mizoram		NDVI of soil moisture for Mizoram is moderate wet condition.

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

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	**Nursery stage**		➕ A chi: A chi chu lakchhuah anih veleh nurseey ah a thuk zawng 1.5-2cm leh 10X5cm a inhlat a chin tur. A rawn chawr chu polythene bag ah hnah 4-6 a neih hunah phun sawn tur. ➕ Nursery chu rannung leh a damlohna dang laka ven nan ser huan atanga meter 500 a hla ah dah tur. ➕ Lei, balu leh bawngek leitha chu a inzat theuha pawlhin pek tur. ➕ Bawngek leitha chu thlai pakhat ah 600:200:100g a pek tur. ➕ Certified thlai chi chauh hman tur. ➕ Ser kung bula tuitling chu paihfai vek tur. ➕ A tiak inchen tlang chauh phun atan hman tur. ➕ A zar tliak leh hnip chu paih fai zel tur. ➕ Thlai chu hrisel taka enkawl tur.
Oil palm	**Vegetative stage**		➕ Oil palm kung bul chu tihfai a a zar thlak bawk tur. ➕ Leitha chu thlai pakhatah 600:200:100g a pek tur. ➕ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ➕ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.. ➕ Oil palm kung bul chu tihfai a a zar thlak bawk tur.

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			✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ Oil palm rah chu a puitlin hunah te, a rawng inthlak hunah leh a thlum leh thur a pai tam hunah seng tur.
Balhla	**Flowering stage**		✚ Balhla kung bul chu tihfai a a zar thlak bawk tur. ✚ Leitha chu thlai pakhatah 600:200:100g a pek tur. ✚ Heng micro-nutrients zinc, copper, manganese, iron, boron leh molybdenum te hi an mamawh tawka pek tur, a huan pum a chhiat vek loh nan ven that bawk tur. ✚ A zar thlak ngun hian rannung leh natna lakah a veng a, chubak ah leitha a hek lova, thlai thar a ti tam bawk ani. ✚ A rah chu a puitlin hunah leh a rawng eng a nih hunah seng tur.
		Comb weevil and stem weevil	✚ Application of 60 to 100 g of neem seed powder or neem cake at planting and then at 4 months intervals significantly diminished pest damage and increased yields.
Sapthei	**Transplanting stage**		✚ A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur. ✚ A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. ✚ Polythene bag atangin thla ¾ hnu ah huan ah phun sawn leh tur. ✚ Bawngek leitha chu khur khat ah 15g leh NPK 100:50:100g in

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			kumkhat chhungin pek tur.
Lakhuihthei	**A par lai**		✚ A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlaiin hnah 32 a neih hunah pek tur. ✚ Chemical pek atangin ni 55-60 chhungin a par a chhuah thei ang. ✚ Leitha chu thlai pakhat ah 60:50:60g a pek tur. ✚ Thlai hnah leh a zar thi te chu paihfai a, hnim te tihfai bawk tur.
		Corm borer	✚ Carbofuran 3G chu hectare khatah 1.5kga.i a pek tur. Hemi hi a zung ah a tuina hnuhma a awmin pek tur
Cucurbitaceous crops	**A rah lai**		✚ Ni 7 danah tui chu tha taka pek tur. ✚ Huan zau thamah chuan fruitfly leh pumpkin beetle ven nan carbaryl 0.2% leh malathion 0.15% chu chini tui litre khatah 10g a pawlhin kar khat danah leh a par tan tirhah leh a rah tan hunah kah tur. ✚ Thlai pakhatah a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	**A chin dan**	**1. Nursery tihfai a tui tlem pek tur.** **2. Phunsawn hnuah tui tha taka pek tur.**	✚ A kung bulthut ah hnim chheh darh tur. ✚ A khat tawkin tui pek tur. ✚ A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
French bean	**A par lai**		✚ Bean hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ A chin atanga ni 20-25 ah bean kung chu mau in a zamna siam tur.
Bawkbawn	**A chin dan**		✚ Balu leh leitha chu lei nen a chawhpawlh hnu in 75-100cm

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			a zau ah a phunna tur siam tur. A chinna lai chu Blue copper 100g tui litre 40 ah emaw formaldehyde nen a pawlhin leih tur. - A chi chu 5cm a inhlat a tuh in lei pangngai a vur leh tur.
Tomato	**A chin dan**		- Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). - Leitha 10kg leh bawngek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
Buh	**Nursery stage**	**Pre kharif rice**	- A chi tha leh khat tha chauh hman tur. - Tui litre 10 ah chi (salt) 250g pawlhin chutah chuan chiah tur. - Bavistin 50WP @0.1% chu tui litre khatah 2g a pawlhin a chi chu chiah tur.
		Raised bed method	- A chin na tur chu 10m a sei ni se, 1.25m a zau leh tui luanna tur 20-30cm a zau siam tur. Hei hian a chi kal ral mai mai tur a veng. - Leitha pek hnu ah a chi damdawi a chiah te chu theh tur.
Vaimim	**A chin dan**		- Lei chu vawi 2/3 laihphut phawt tur. - A chi chu a line indawt a chin tur - A chi chu kg khatah Thiram 4g a chiah tur. - Hectare khatah buh chi chu 20-25kg hman tur. - Bawngek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K20 hman tur. Vaimim chin hma in lei nen

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			tihpawlh tur. Nitrogen chu a dose chanve in a chin hnu ah pek tur, a bang 25% chu a hnu thlakhat ah leh a dang 25% chu a par hunah pek tur.
Sawhthing leh Aieng	**Land preparation**		✚ Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. ✚ Lei chu boruak kal that nan laihphut thin tur. ✚ Nitrogen leitha chu an mamawh taw kanga pek tur.
		Thrips	✚ Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Scales	✚ Quinalphos emaw Monocrotophos chu tui litre khatah 2.5ml a pawlhin kah tur.
Vawk	**Kumtluanin**	**Porcine Reproductive Respiratory Syndrome (PRRS).**	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	**Swine fever.**	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	**Kumtluanin**	**Foot and Mouth Disease (FMD)**	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQ) ✚ Thla ruk an tlin hunah vaccine lak tan tur. ✚ Kumkhat hnu ah vaccine pek leh tur.
Ar	**Kumtluanin**	**Ranikhet Disease.**	1. Ar note an pian hlimin F_1 vaccine pek tur a nia an puitlin hunah R_2B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.

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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. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahthial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vvl9@rediffmail.com kvklawngtalai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary		PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com

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