



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: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	4	3
Max Temp (°C)	29	29	29	22	22
Min Temp (°C)	11	13	13	14	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	36	34	41	70	63
Wind Speed (Kmph)	4	2	2	3	4
*Wind Direction	S-E	S-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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

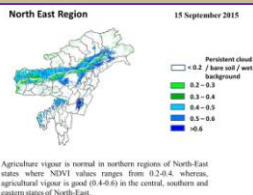
October 28, 2015 atanga November 01, 2015 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 23.0-24.8°C leh a vawh lai berin 14.8-17.8°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 83-92% leh a hniam lai 33-41% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.00mm** ani. (Source- mosdac.gov.in)

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-29°C a ni ang a. A vawh lai ber in 11-15°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 34-70% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 13.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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 tiak leh hnip chu paih fai zel tur. • Thlai chu hrisel taka enkawl tur.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage		- Oil palm kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatatah 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	Vegetative/ harvesting		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf	Dithane M-45 chu tui litre khatah



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		blotch	2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	Blister beetle	• 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.
		Aphids	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
			• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek 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.



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		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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	98	97	93
Min RH (%)	38	34	37	51	50
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

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Weather summary of the past three days

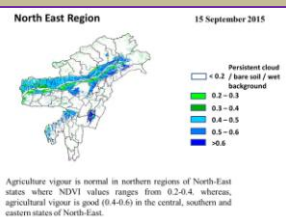
The temperature range for maximum and minimum were 28.2-29.7°C and 20.7-21.7°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 94-97% & minimum of 59-67%. Rainfall recorded for the past three days is **00.00mm.**

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 27-31°C and 13-17°C. Maximum relative humidity is expected in the range of 93-99% and minimum may from 34-51%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 03.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training KOLASIB MAMIT AIZAWL CHAMPHAI SERCHHIP	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage	LUNGLEI LAWNGTLAI SAIHA	- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering/		Cleaning near base of the plant



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	harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

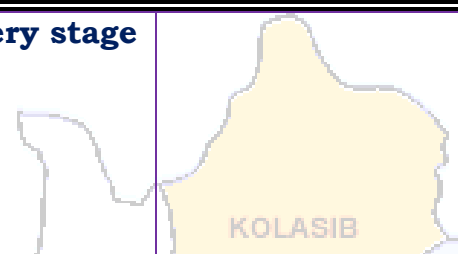
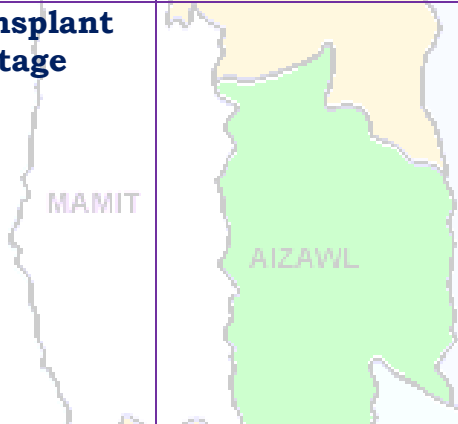
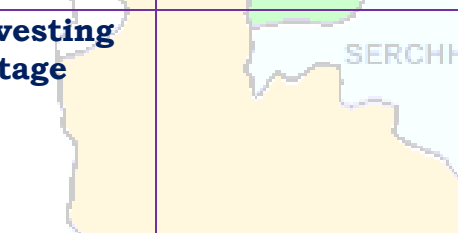


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Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

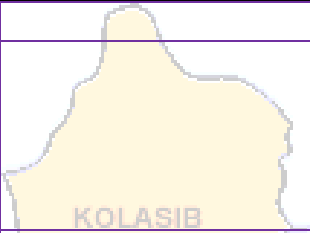
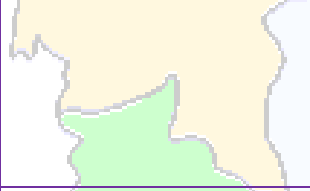
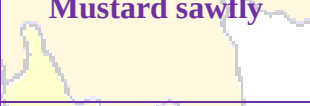


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage		Land preparation ✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Fertilizer application 180:50:50 kg/ha.
			Damping off ✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
			Mustard sawfly ✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and

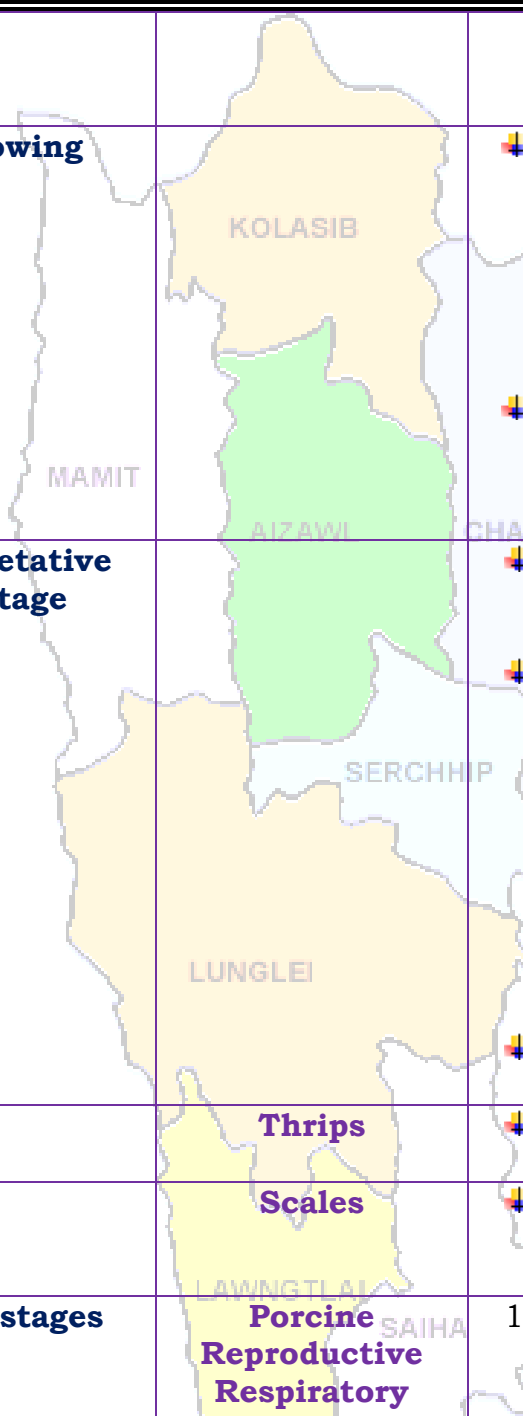


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			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome	1. Culling of positive pigs or piglets.



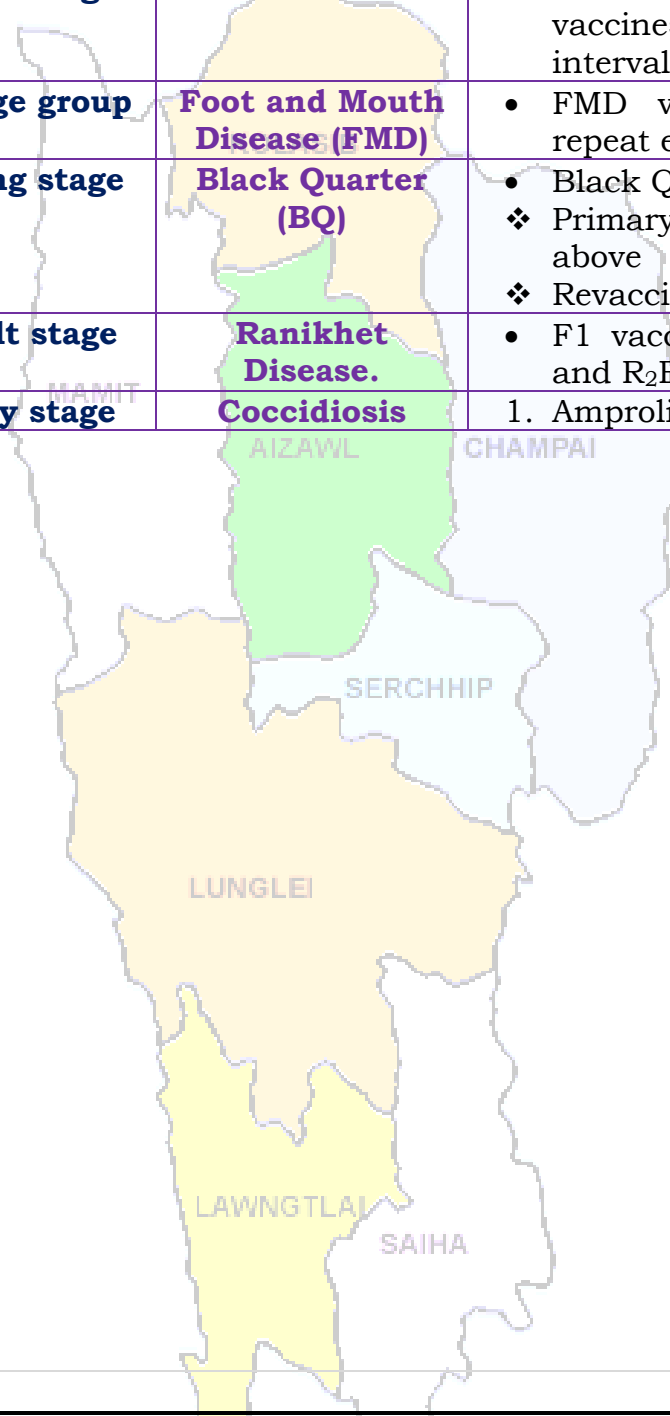
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	Adult stage	(PRRS). Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	0	3	0
Max Temp (oC)	31	31	31	27	27
Min Temp (oC)	13	14	14	16	17
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly cloudy	Mainly cloudy
Max RH (%)	98	99	98	97	93
Min RH (%)	38	34	37	51	50
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

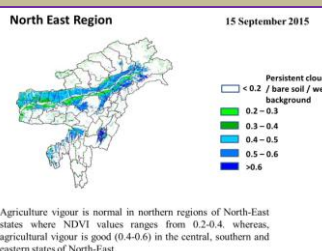
October 28, 2015 atanga November 01, 2015 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 28.2-29.7°C leh a vawh lai berin 20.7-21.7°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 94-97% leh a hniam lai 59-67% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.00mm** ani.

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-31°C a ni ang a. A vawh lai ber in 13-17°C ni tur ah beisei a ni. RH san lai berin 93-99% leh a hniam lai berin 34-51% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 03.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark



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			eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage		• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting		• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga



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			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 $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek 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 pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	- Nursery tihfai a tui tlem pek tur. - Phunsawn hnuah tui tha taka pek tur.	- A kung bulthut ah hnim chheh darh tur. - A khat tawkin tui pek tur.



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			A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids 	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle 	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle 	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper 	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt 	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off 	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15



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		Leaf spot and leaf blotch	ah leih tur. • Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.



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		Aphids	• Surf tuiin thlai chu kah tur. • Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek 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.



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			- Nitrogen leitha chu an mamawh taw kanga pek tur. - Roger emaw Monocrophos chu tui litre khatah 2.5ml a pawlhin kah tur.
		Thrips	
		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)	Thla 16 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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lawngtlai

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	11	27
Max Temp (°C)	31	31	29	22	23
Min Temp (°C)	13	15	16	17	16
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	94	96	96	97	97
Min RH (%)	38	39	49	89	85
Wind Speed (Kmph)	4	3	2	4	4
*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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

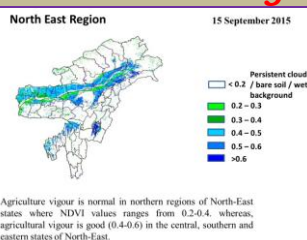
Weather summary of the past three days

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There are chances of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 22-31°C and 13-17°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 38-89%. Wind direction would be Northeasterly to easterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 44.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



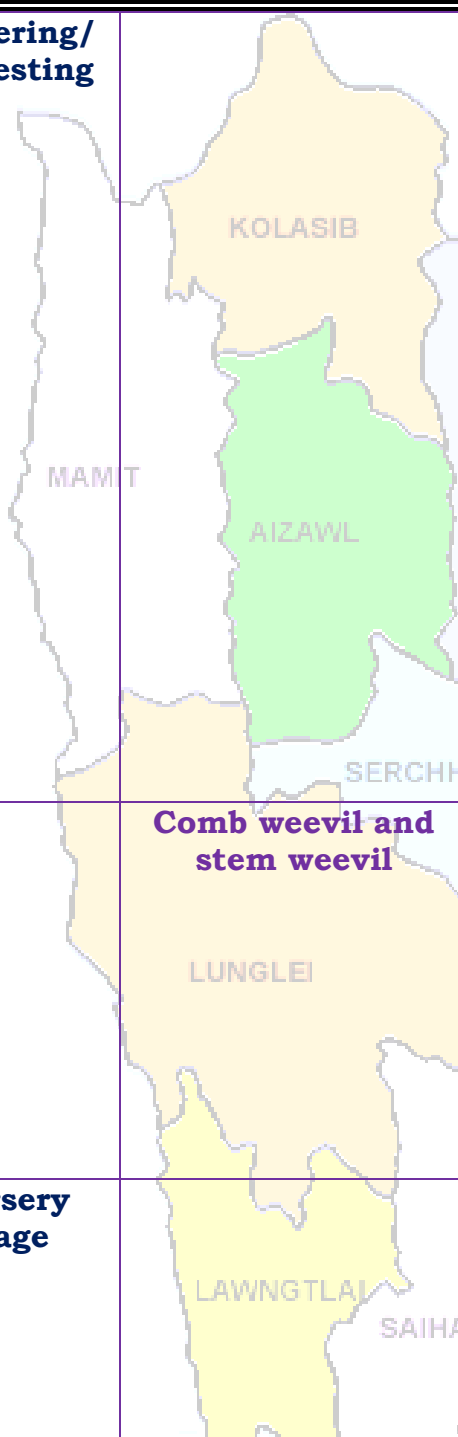
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage		- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).

Banana	Flowering/ harvesting		✚ Cleaning near base of the plant and cut unwanted branches. ✚ Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. ✚ 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 for fruit bearing plant. ✚ 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	✚ Applications of neem powder effectively controlled weevils. ✚ 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. ✚ Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		✚ Nursery preparation for tomato. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/m²)



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Chilli	Nursery stage	KOLASIB	- Line sowing of seeds (7-10cm) - Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage	MAMIT AIZAWL	- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage	SERCHHIP LUNGLEI	- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
		Fruit fly	- Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage	LAWNGTLAI SAIHA	- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more



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			moisture is available as in rainy season, they may begin to decay.
French bean	Flowering stage	KOLASIB	✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	Land preparation AIZAWL	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off LUNGLEI	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI SAIHA	✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory	Culling of positive pigs or piglets.



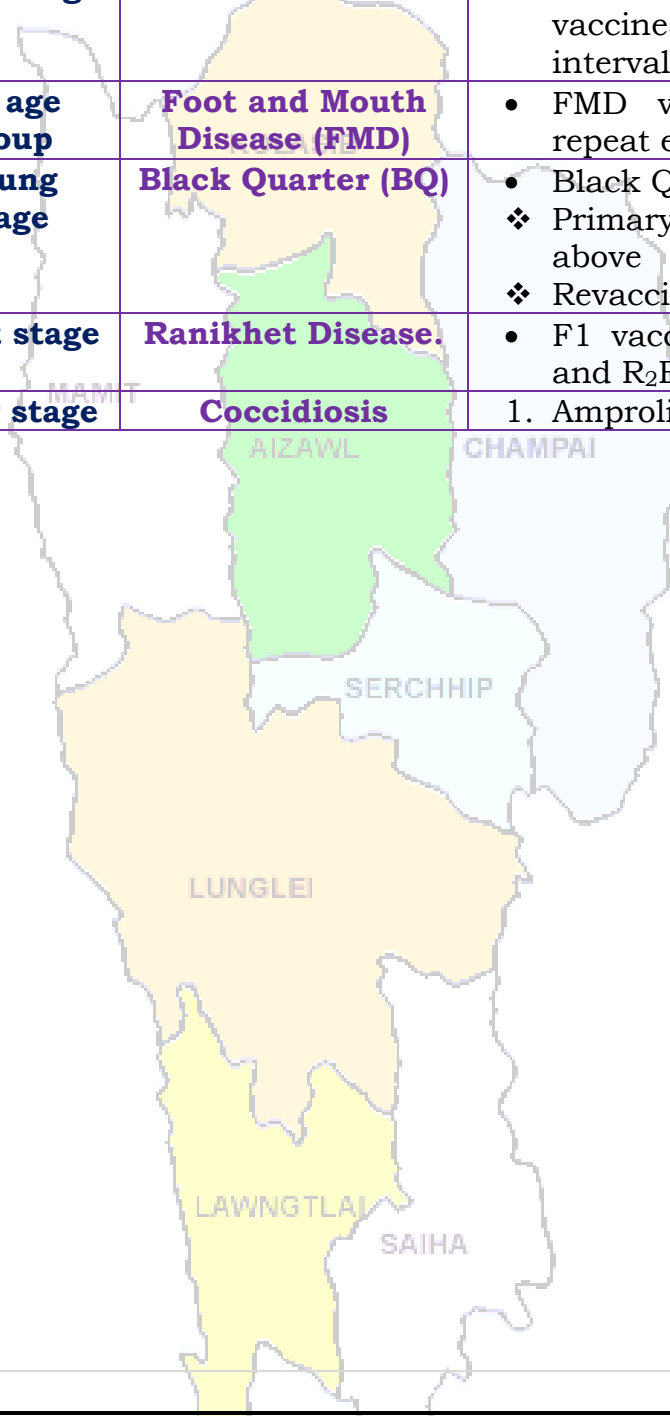
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		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black 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 R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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



District: Lawngtlai

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	11	27
Max Temp (°C)	31	31	29	22	23
Min Temp (°C)	13	15	16	17	16
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	94	96	96	97	97
Min RH (%)	38	39	49	89	85
Wind Speed (Kmph)	4	3	2	4	4
*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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

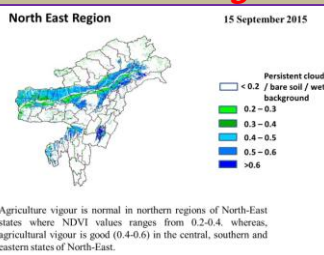
**Ni thum kaltha sik leh
sa dinhmun tlangpui**

**October 28, 2015 atanga November 01, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-31°C a ni ang a. A vawh lai ber in 13-17°C ni tur ah beisei a ni. RH san lai berin 94-97% leh a hniam lai berin 38-89% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 44.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O 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.



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)



		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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Lunglei

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	5	8
Max Temp (°C)	31	31	30	22	23
Min Temp (°C)	11	14	14	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	34	33	41	89	69
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

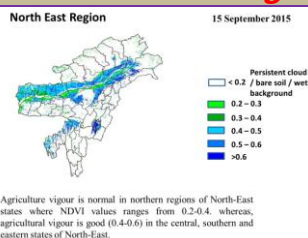
Weather summary of the past three days

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There are chances of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 22-31°C and 14-15°C. Maximum relative humidity is expected in the range of 99% and minimum may from 33-89%. Wind direction would be easterly to northeasterly with the wind speed of 2-4 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 19.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

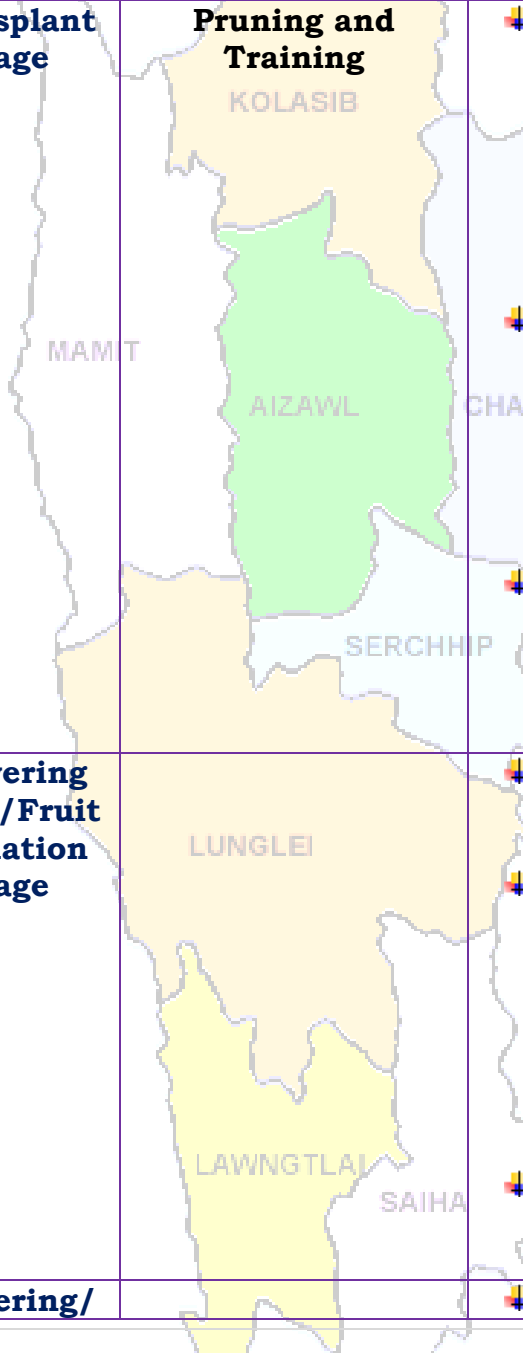
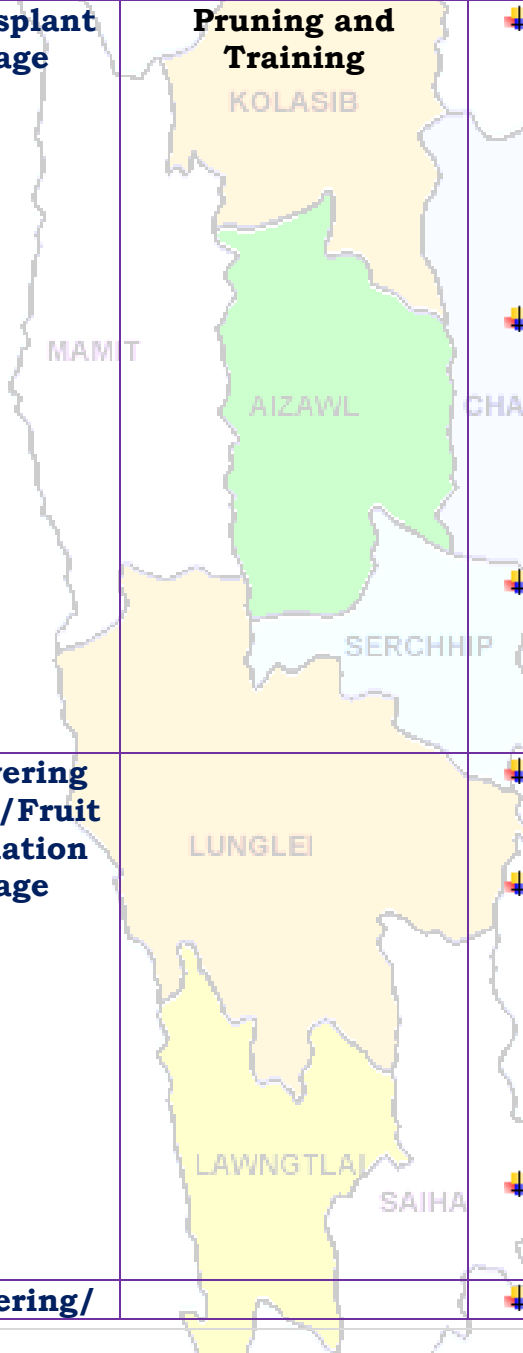
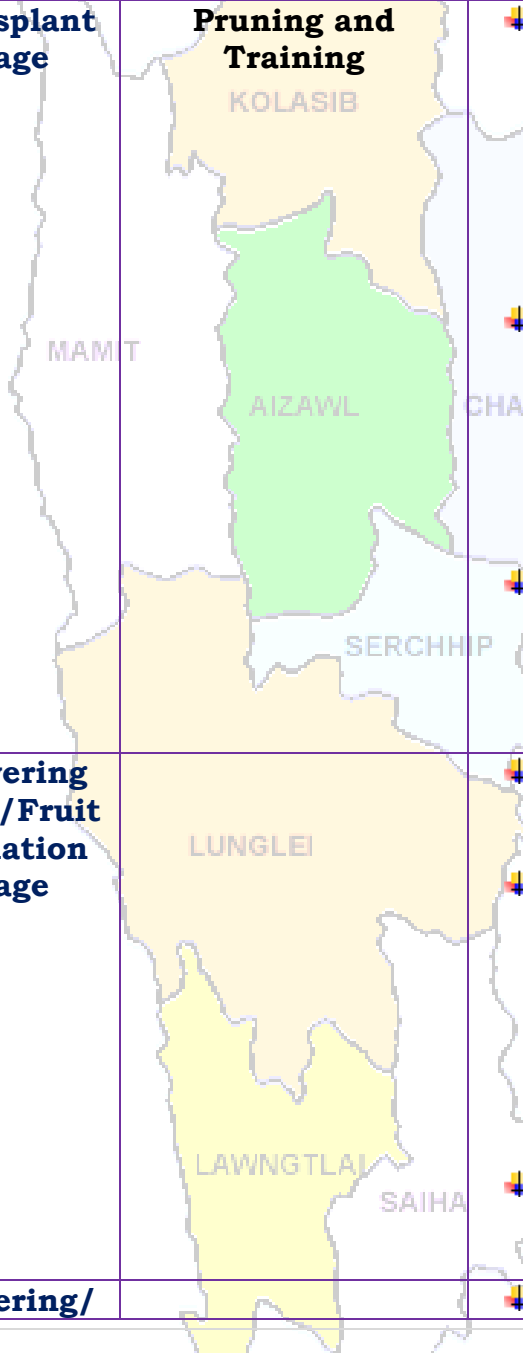


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training 	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage		- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering/		Cleaning near base of the plant



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	harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

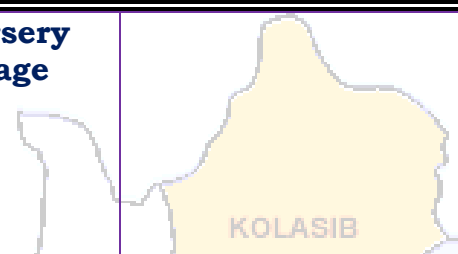
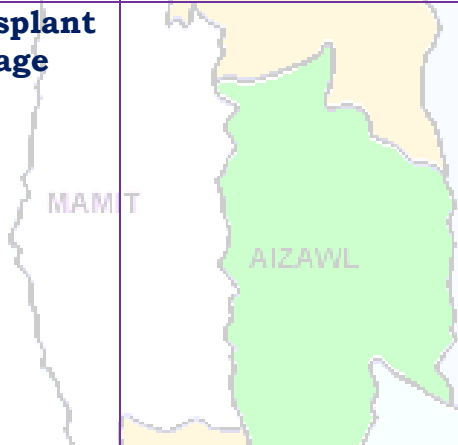
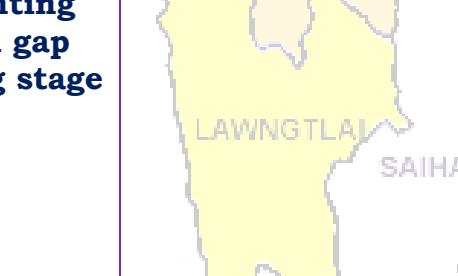


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Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

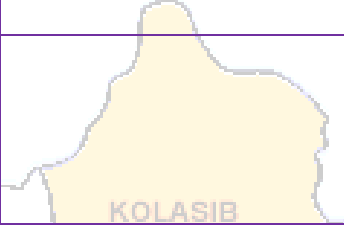
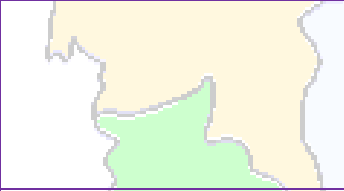
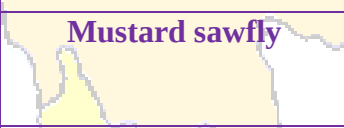


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French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	Land preparation 	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off 	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly 	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and

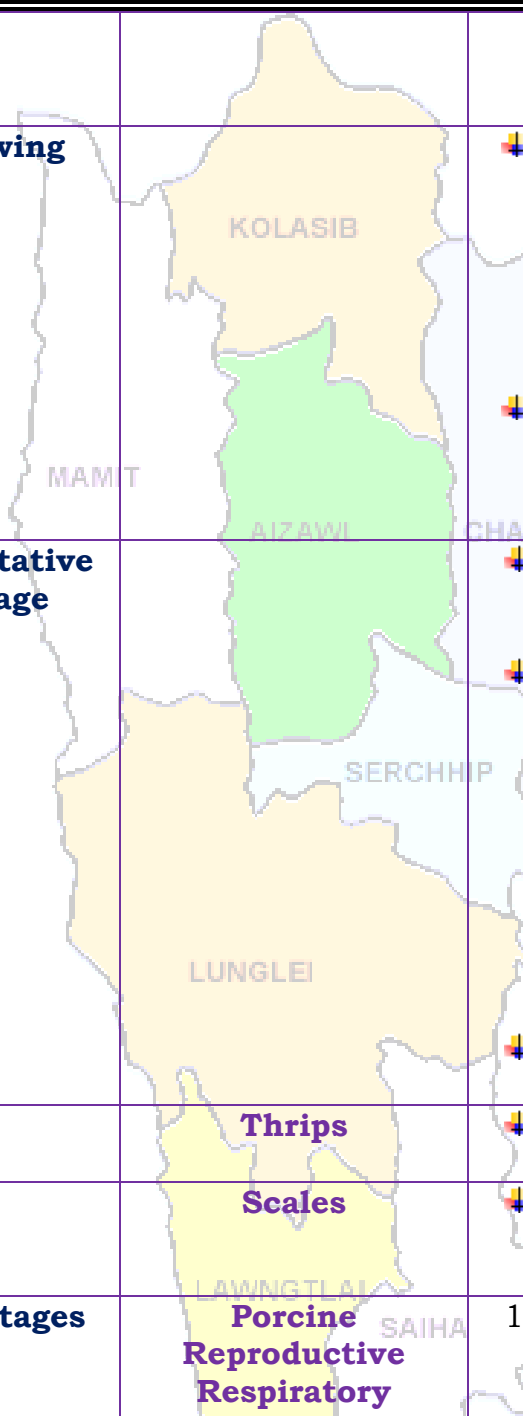


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			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.



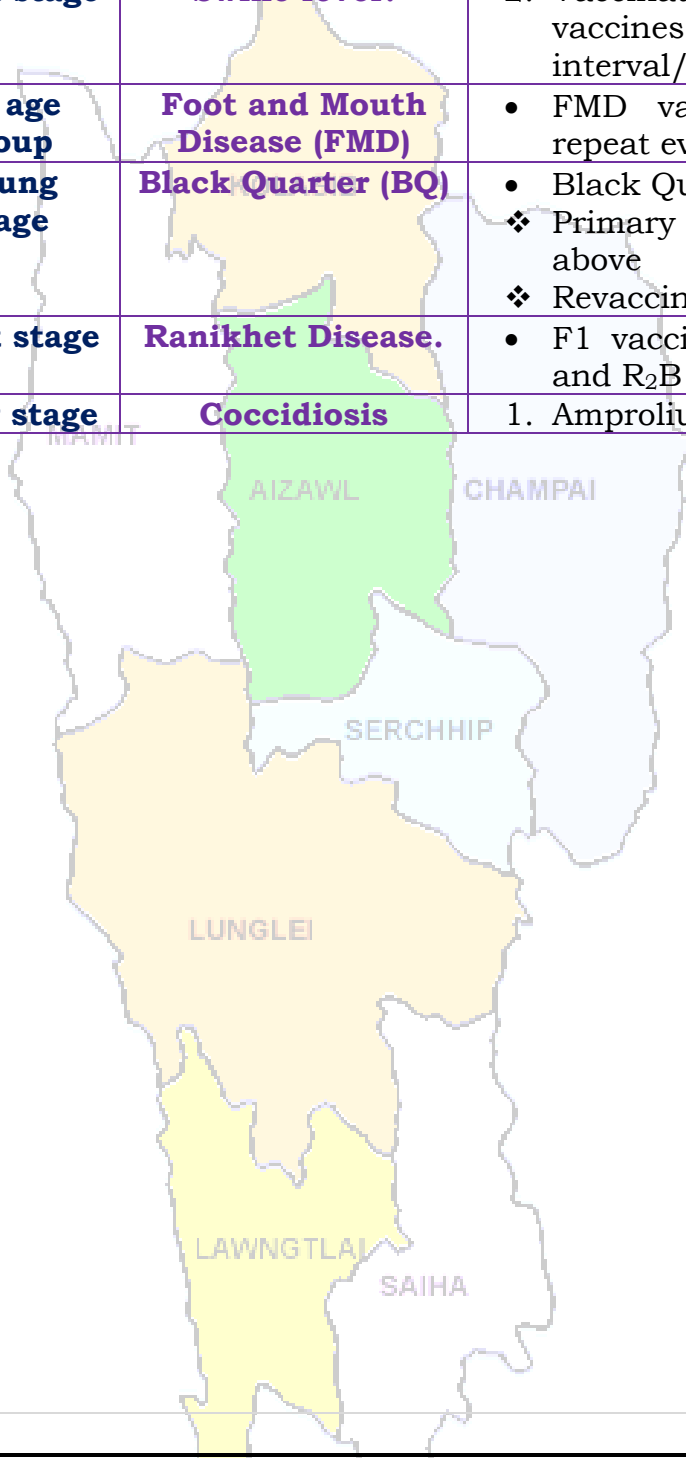
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	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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District: Lunglei

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	5	8
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Min Temp (°C)	11	14	14	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	99	99
Min RH (%)	34	33	41	89	69
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

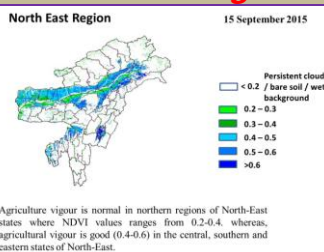
**Ni thum kaltha sik leh
sa dinhmun tlangpui**

**October 28, 2015 atanga November 01, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-31°C a ni ang a. A vawh lai ber in 14-15°C ni tur ah beisei a ni. RH san lai berin 99% leh a hniam lai berin 33-89% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 19.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage		- Oil palm kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatatah 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	Vegetative/ harvesting		- Balhla kung bul chu tihfai a a zar thlak bawk tur. - Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O 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.



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		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)	Thla 16 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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Mamit

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	0	3	0
Max Temp (°C)	31	32	31	25	26
Min Temp (°C)	13	14	14	16	17
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	94	96	96	97	97
Min RH (%)	38	39	49	89	85
Wind Speed (Kmph)	4	3	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Weather summary of the past three days

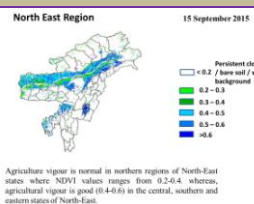
The temperature range for maximum and minimum were 23.0-24.4°C and 14.1-17.6°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 83-91% & minimum of 33-44%. Rainfall recorded for the past three days is **00.00mm.**
(Source, Mosdac.gov.in)

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There is a chance of rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 25-31°C and 13-17°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 38-85%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 03.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training KOLASIB MAMIT AIZAWL CHAMPHAI SERCHHIP	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage	LUNGLEI LAWNGTLAI SAIHA	- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering/		Cleaning near base of the plant



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	harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

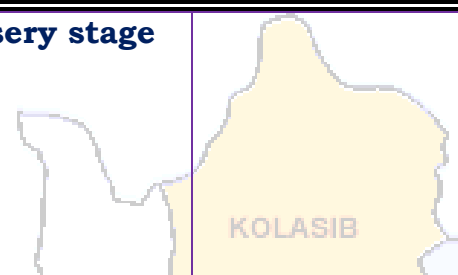
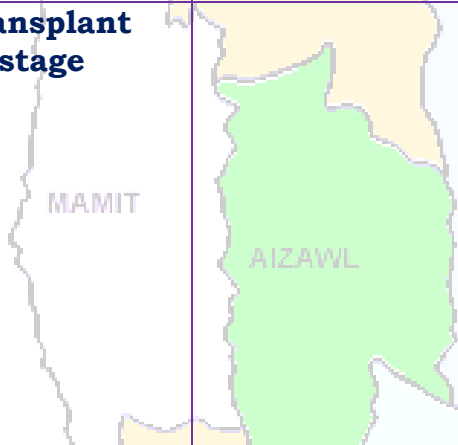
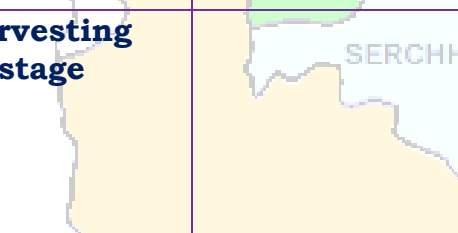
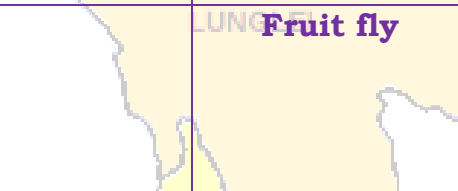
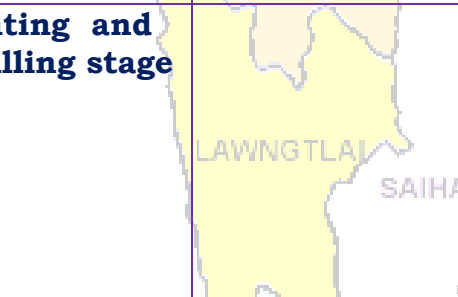


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Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

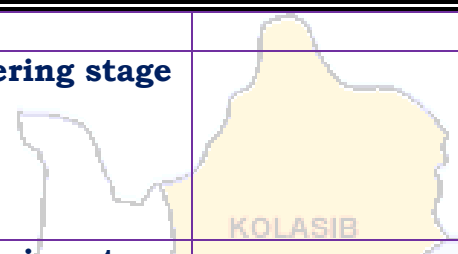
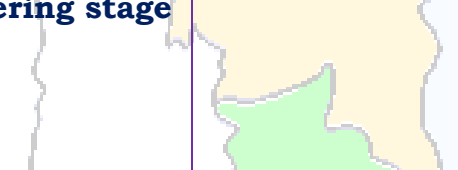
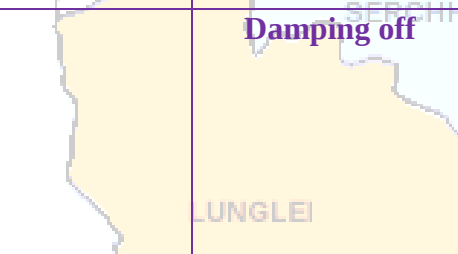
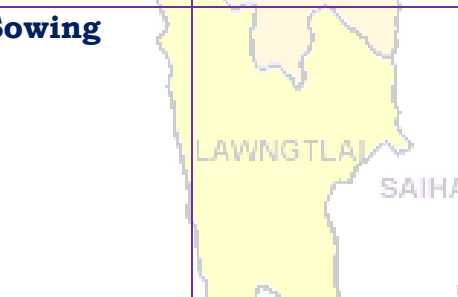


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French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage		Land preparation ✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Fertilizer application 180:50:50 kg/ha.
			Damping off ✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
			Mustard sawfly ✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and

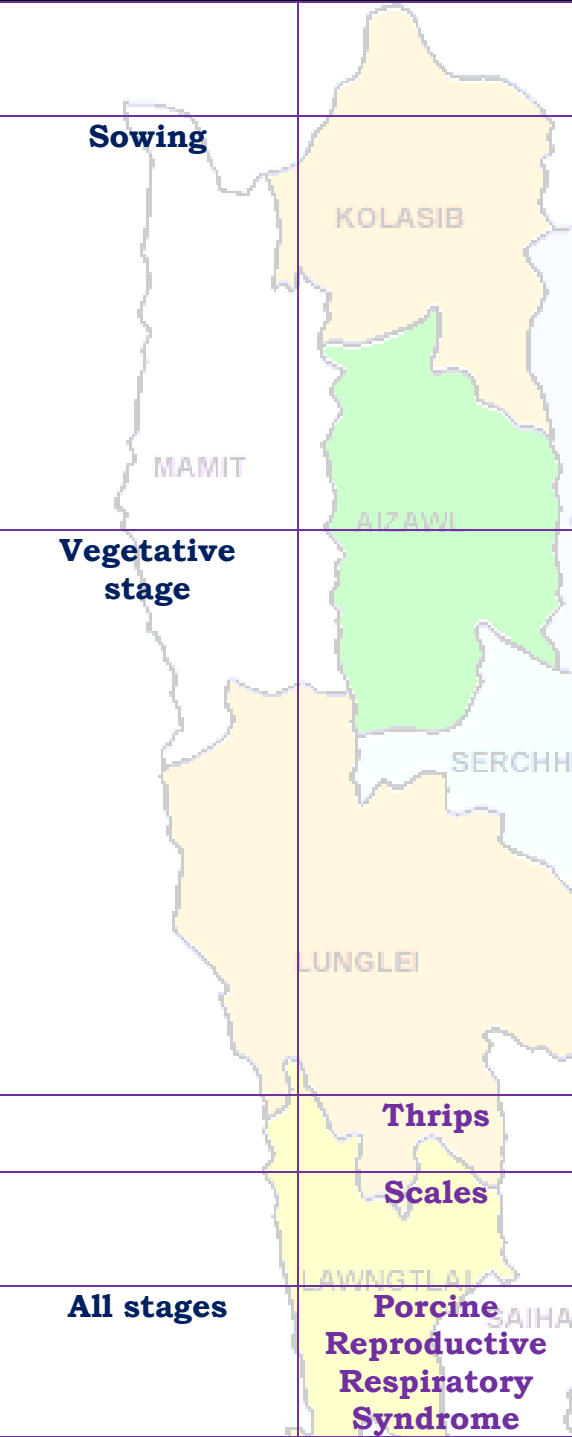


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			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome	Culling of positive pigs or piglets.



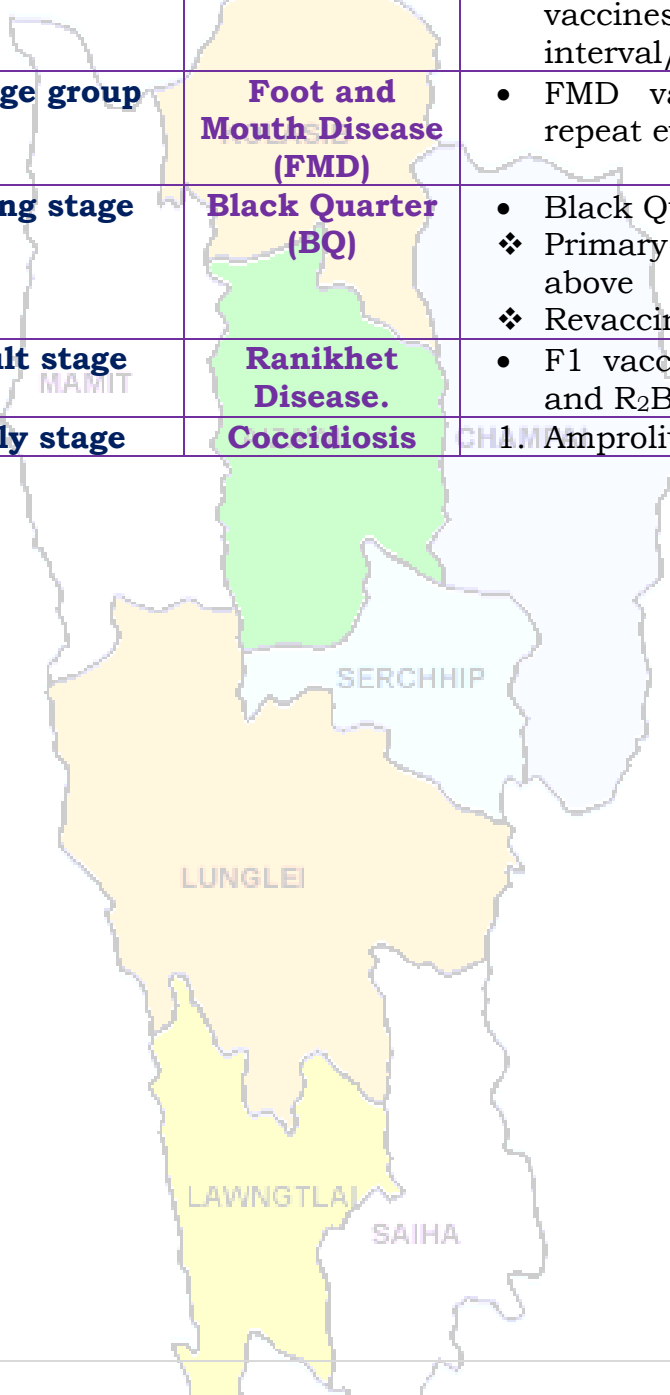
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	Adult stage	(PRRS). Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	0	3	0
Max Temp (oC)	31	32	31	25	26
Min Temp (oC)	13	14	14	16	17
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	94	96	96	97	97
Min RH (%)	38	39	49	89	85
Wind Speed (Kmph)	4	3	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

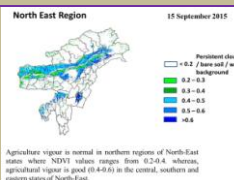
October 28, 2015 atanga November 01, 2015 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 23.0-24.4°C leh a vawh lai berin 14.1-17.6°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 83-91% leh a hniam lai 33-44% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.00mm** ani. (Source- mosdac.gov.in)

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 25-31°C a ni ang a. A vawh lai ber in 13-17°C ni tur ah beisei a ni. RH san lai berin 94-97% leh a hniam lai berin 38-85% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 03.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 pahfai a, hnim te tihfai bawk tur.
		Corm borer SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P205 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.



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		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 chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm 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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	6	33
Max Temp (°C)	30	30	29	21	22
Min Temp (°C)	11	14	15	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	95	97	97	98	98
Min RH (%)	34	36	46	92	87
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Weather summary of the past three days

The temperature range for maximum and minimum were 24.3-29.5°C and 18.3-22.1°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 70-85% & minimum of 41-58%. Rainfall recorded for the past three days is 00.00mm.

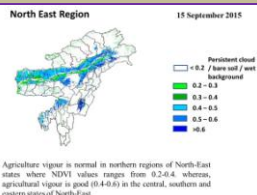
(Source, Mosdac.gov.in)

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There are chances of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 21-30°C and 11-15°C. Maximum relative humidity is expected in the range of 95-98% and minimum may from 34-92%. Wind direction would be easterly to northeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 45.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training KOLASIB MAMIT AIZAWL CHAMPHAI SERCHHIP	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage	LUNGLEI LAWNGTLAI SAIHA	- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering/		Cleaning near base of the plant



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	harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

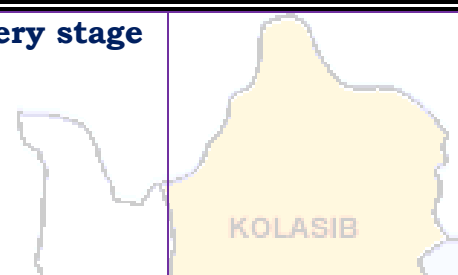
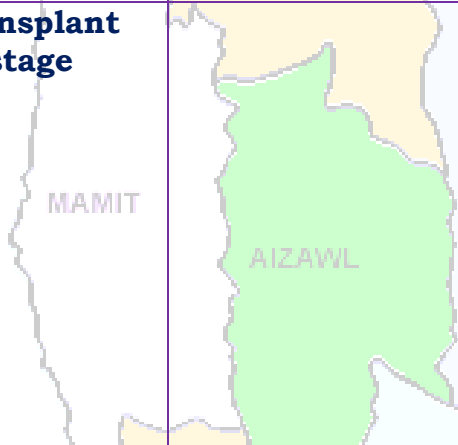
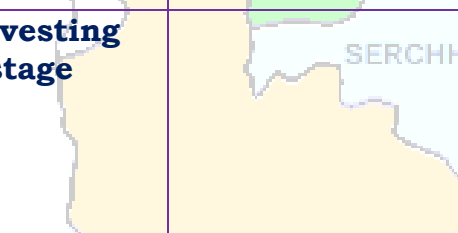


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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

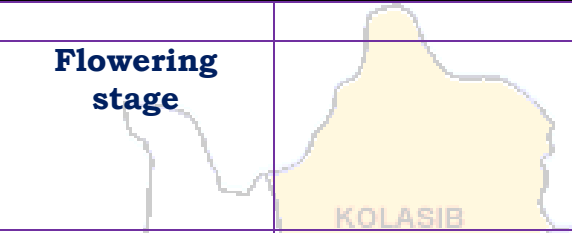
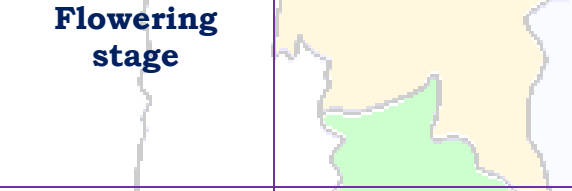
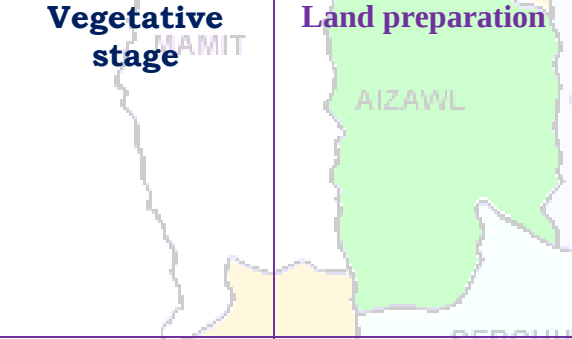
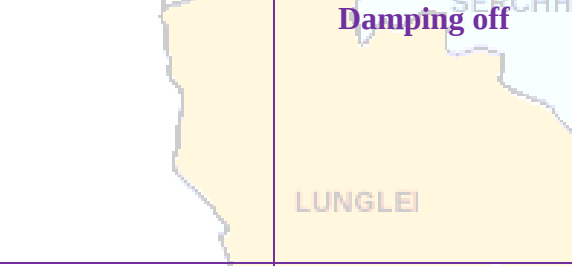
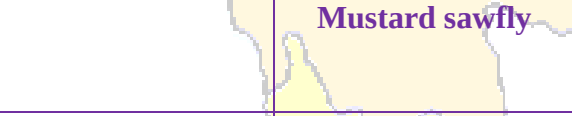


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French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	 Land preparation	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Fertilizer application 180:50:50 kg/ha.
		 Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		 Mustard sawfly	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and

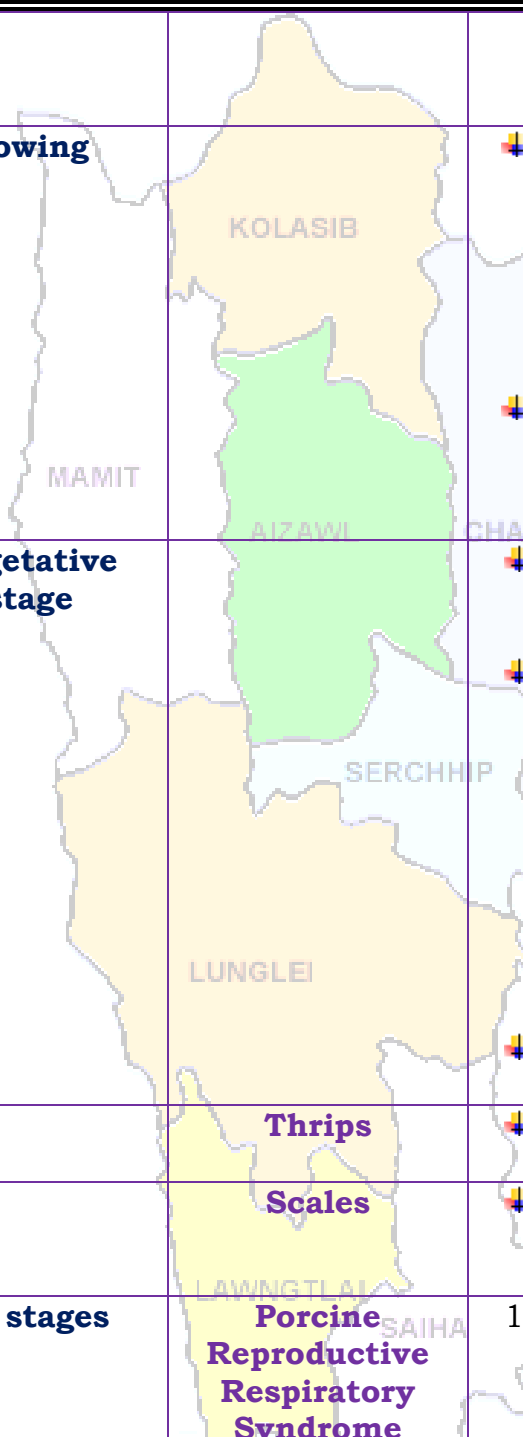


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			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome	1. Culling of positive pigs or piglets.



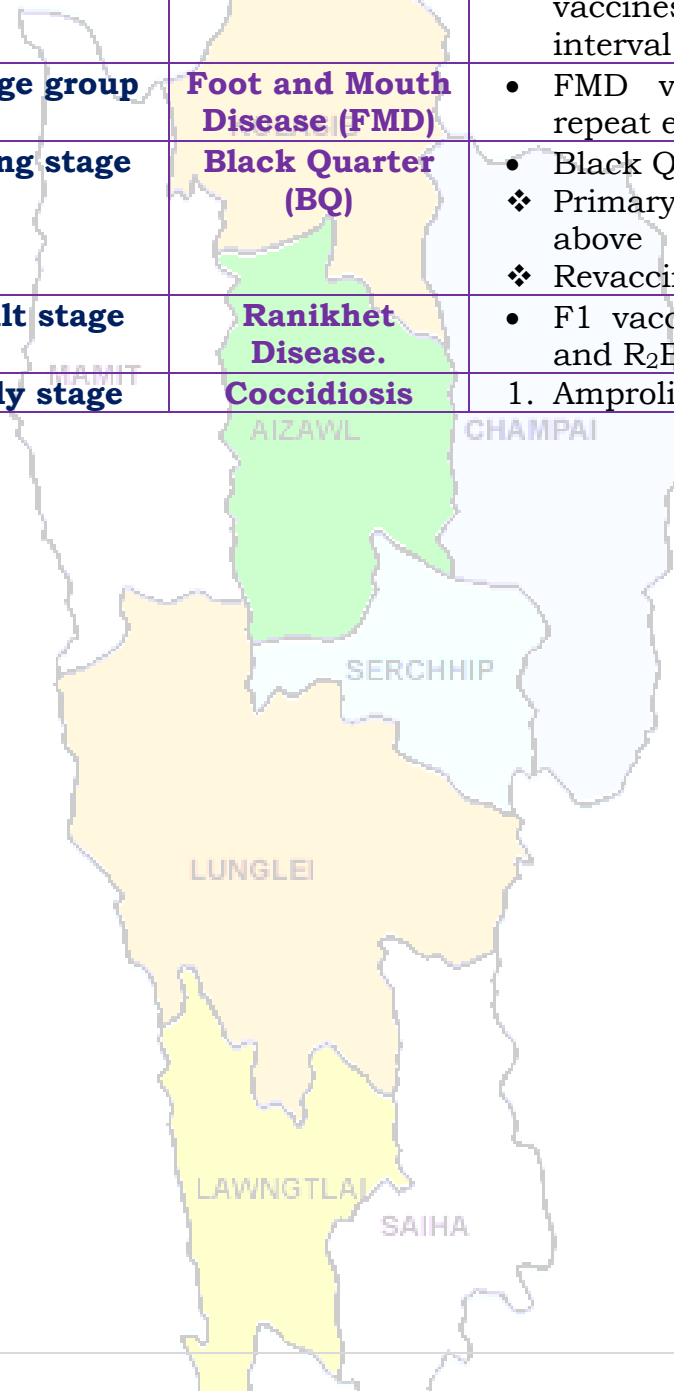
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	Adult stage	(PRRS). Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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District: Saiha

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	6	33
Max Temp (oC)	30	30	29	21	22
Min Temp (oC)	11	14	15	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	95	97	97	98	98
Min RH (%)	34	36	46	92	87
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

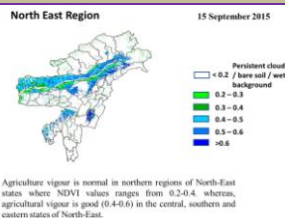
October 28, 2015 atanga November 01, 2015 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 24.3-29.5^oC leh a vawh lai berin 18.3-22.1^oC 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 41-58% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.00mm** ani. (Source- mosdac.gov.in)

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 21-30^oC a ni ang a. A vawh lai ber in 11-15^oC ni tur ah beisei a ni. RH san lai berin 95-98% leh a hniam lai berin 34-92% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 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 for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



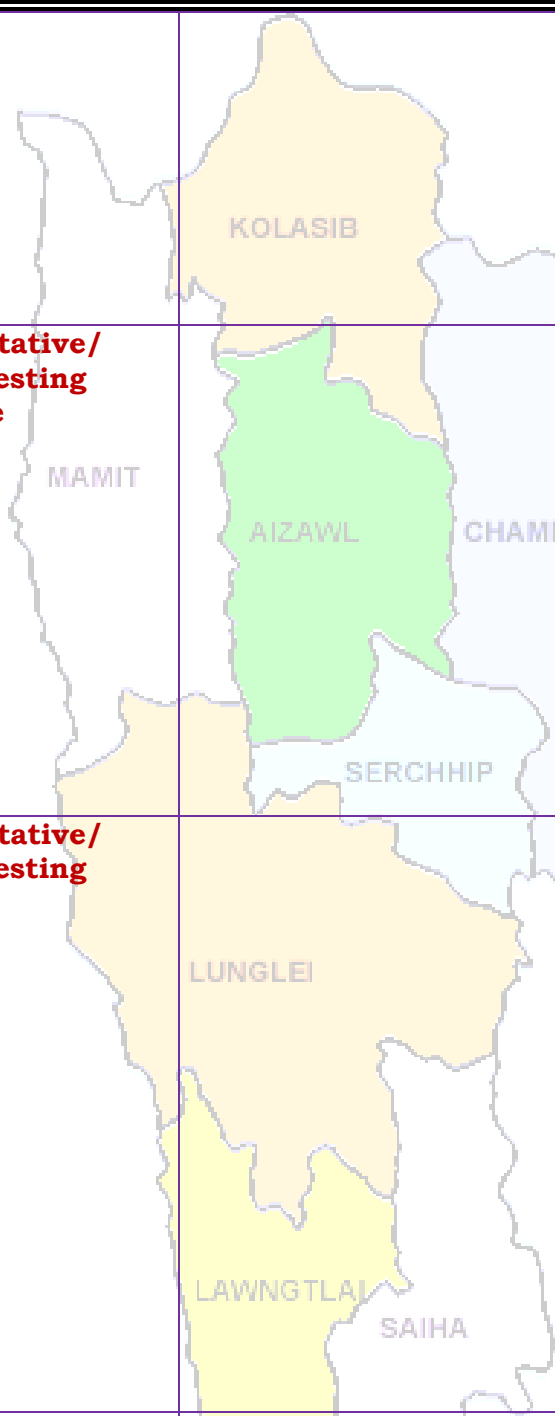
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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele nurseey ah a thuk zawng 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah wawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark

			eating caterpillar, fruit sucking moth, mites, twing blight, gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage		• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting		• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga



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		KOLASIB	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 $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. • Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI SERCHHIP	• 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	LUNGLEI	• 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 pakhat a par nasat lain urea chu 70g a pek tur.
Bawrhsaiabe	A chin dan	LAWNGTLAI	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.

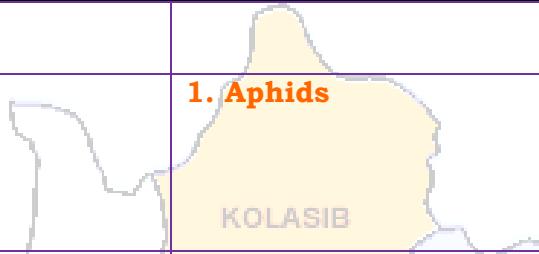
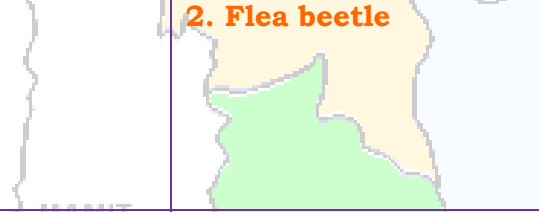
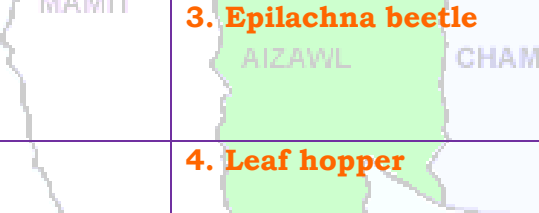
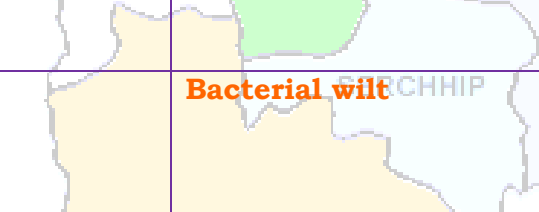
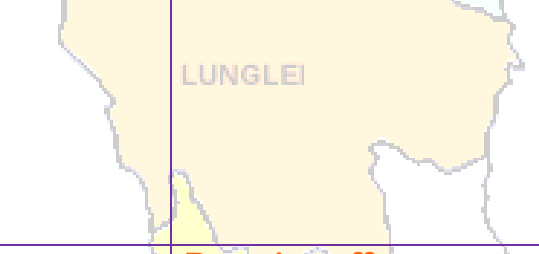


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			A tiak phunsawn te chu nil eh ruah lakah hliahkhuh tur.
		1. Aphids 	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle 	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle 	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper 	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt 	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off 	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15



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		Leaf spot and leaf blotch	ah leih tur. - Dithane M-45 chu tui litre khatah 2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. - Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	- Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. - Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	- Rannung ho chu mankhawmin thah vek tur. - Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.



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		Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. - Bawngkek 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.



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			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)	Thla 16 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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	7	0	0
Max Temp (°C)	30	30	29	22	22
Min Temp (°C)	9	12	13	14	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	99	99
Min RH (%)	31	28	37	84	64
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

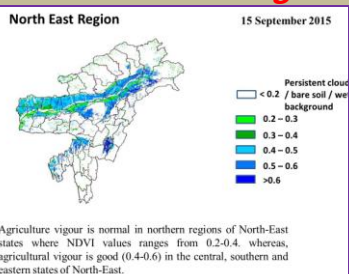
Weather summary of the past three days

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There is a chance of rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 22-30°C and 9-14°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 28-84%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Partially cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 07.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".

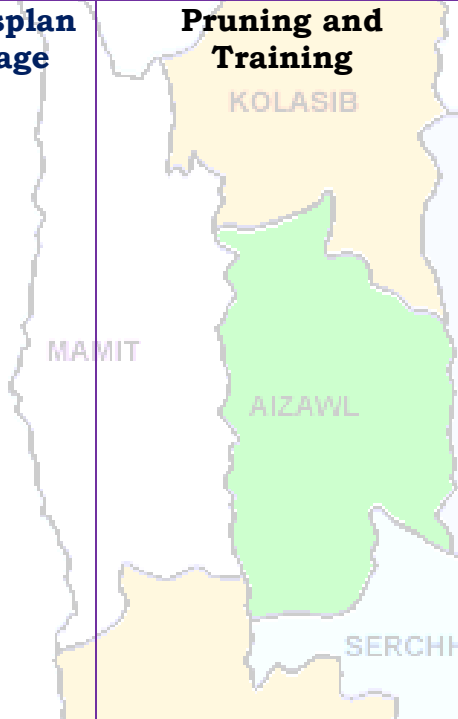


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplan t stage	Pruning and Training 	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fru it formation stage		- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering		Cleaning near base of the plant



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	/ harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

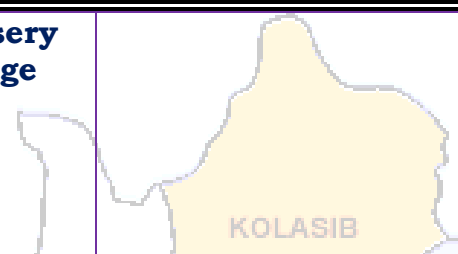
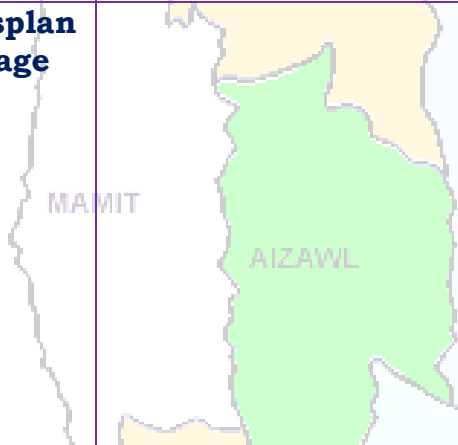


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Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

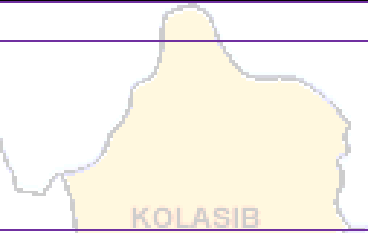
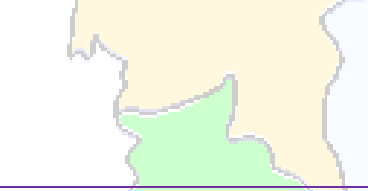


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French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	Land preparation 	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off 	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly 	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and

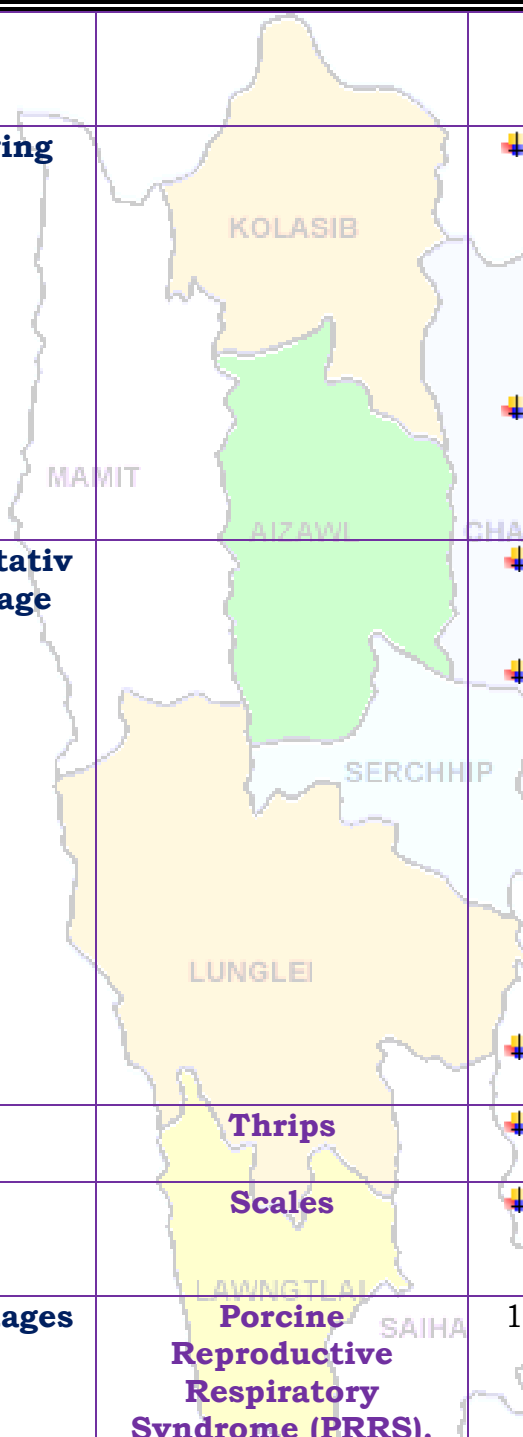


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			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.



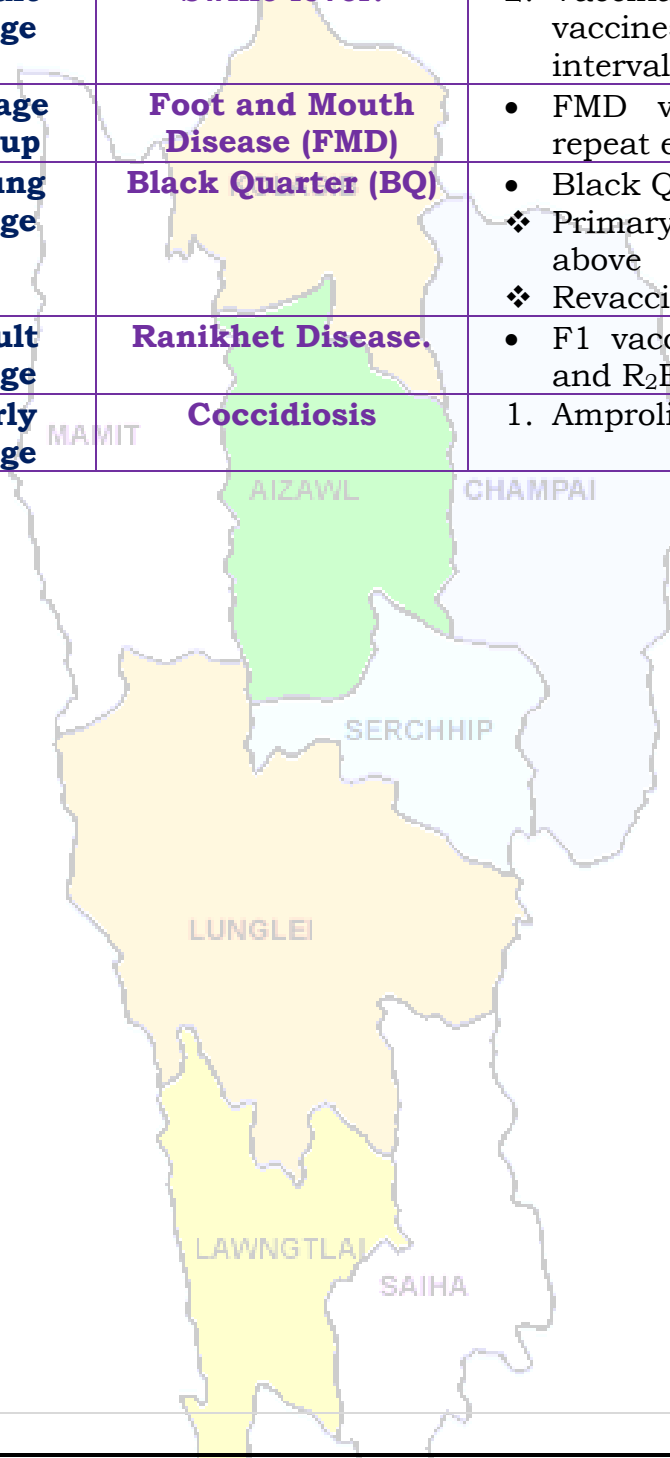
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	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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District: Serchhip

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	7	0	0
Max Temp (°C)	30	30	29	22	22
Min Temp (°C)	9	12	13	14	14
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	99	99
Min RH (%)	31	28	37	84	64
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
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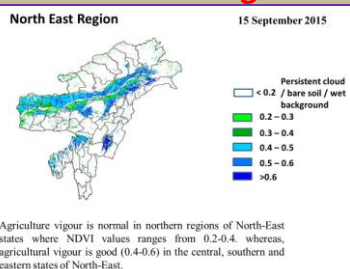
**Ni thum kaltha sik leh
sa dinhmun tlangpui**

**October 28, 2015 atanga November 01, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-30°C a ni ang a. A vawh lai ber in 9-14°C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 28-84% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 07.0mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAI	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf blotch	Dithane M-45 chu tui litre khatah



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			2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin 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 bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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			200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Epilachna beetle	• Methyl parathion 0.5% emaw Dimethoate 0.3% a kah in flea beetle a veng thei
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. • Bawngkek leitha chu hectare khatah 5-10t chu 80:60:40kg N, P2O5 leh K2O 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.



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		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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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District: Aizawl

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/Mizo

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	4	4	0
Max Temp (°C)	30	30	30	24	24
Min Temp (°C)	11	13	13	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	99	96
Min RH (%)	37	33	38	62	55
Wind Speed (Kmph)	3	2	2	4	3
*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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

Khua a lum lai berin 29.3-30.7°C leh a vawh lai berin 20.2-21.4°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 98-99% leh a hniam lai 72-79% ani ang. Ni 3 kal ta chhung a ruah tla zatchu **00.00mm** ani.
(Source- Mosdac.gov.in)

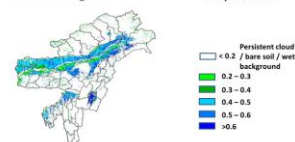
October 28, 2015 atanga November 01, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 24-30°C a ni ang a. A vawh lai ber in 11-15°C ni tur ah beisei a ni. RH san lai berin 96-100% leh a hniam lai berin 33-62% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 08.0mm

NDVI for Mizoram

North East Region 15 September 2015



Agriculture vigour is normal in northern regions of North-East states where NDVI values ranges from 0.2-0.4, whereas, agricultural vigour is good (0.4-0.6) in the central, southern and eastern states of North-East.

NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin and acid lime	Transplant stage		• A chi: A chi chu lakchhuah anih vele 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 bawngkek leitha chu a inzat theuha pawlhin pek tur. • Bawngkek 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.
	Vegetative stage		• Gibberellins (10ppm) chu a rah khal that nan te, a rawng insiam nan te kah tur. • Thlai in tui tha taka an hmuh theih nan drip irrigation hman tur. • Ser rah tla hi ser kung khatah vawi 2 a thleng thin a, hemi ven nan hian GA3, urea, benomyl leh carbendazim a hun takah pek tur, • Heng rannung blackfly(kolshi), citrus psylla, leaf miner, bark eating caterpillar, fruit sucking moth, mites, twing blight,



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			gummosis, root rot leh collar rot te hi ven tur. • Fungicide Carbendazim (0.1% emaw 1000ppm) a hun takah pek tur (thlakhat naah leh a seng hma ni 15 ah, chu chu vawi hnih kah tur).
Oil palm	Vegetative/ harvesting stage	KOLASIB MAMIT AIZAWL CHAMPAL	• Oil palm kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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	Vegetative/ harvesting	SERCHHIP LUNGLEI LAWNGTLAI SAIHA	• Balhla kung bul chu tihfai a a zar thlak bawk tur. • Leitha chu thlai pakhatatah 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.
Sapthei	Nursery stage		• A chi chu a rah hmin tha atanga lak ni se, ni 15-20 hnuah nursery siam tur.



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		KOLASIB	- A hnah 2/3 a rawn awm tan hnu ah polythene bag ah phunsawn tur. - Polythene bag atangin thla $\frac{3}{4}$ hnu ah huan ah phun sawn leh tur. - Bawngkek leitha chu khur khat ah 15g leh NPK 100:50:100g in kumkhat chhungin pek tur.
Lakhuihthei	A par lai	MAMIT AIZAWL CHAMPAI	- A par chhuah hma nan chemical (Ethrel 10ppm+2% urea+0.04% sodium carbonate) chu pek tur. Tlai ah emaw thlain 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 SERCHHIP	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	LUNGLEI	- 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.
Bawrsaiabe	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.



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		1. Aphids	- Surf tuiin thlai chu kah tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur
		2. Flea beetle	- Pangang tui leh a puitling te chu a kung atangin thin thlak tur. - Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		3. Epilachna beetle	- A hnah a pangang leh a tui awm chu paihfai tur. - Methyl parathion 0.5% emaw Dimethoate 0.3% a kah tur.
		4. Leaf hopper	Heng insecticides Imidacloprid 200SL hi tui litre khatah 0.25ml in emaw Dimethoate 30% EC hi tui litre 10 ah 7ml a kah tur.
		Bacterial wilt	- Huan chu fai taka dah a, thlai damlo te chu paihfai bawk tur. - Thlai damlo enkawl nan copper fungicide (2% Bordeaux mixture) a kah tur.bacterial witl chu root knot nematodes tam naah a awm thin a, hemi nematodes control hian bacterial wilt hi a veng thei. - Streptocycline sulphate chu tui litre khatah 0.3g leh Blitox 50 chu tui litre 15 ah 5g a pek tur.
		Damping off	- Thlai chi chu kg khatah Thiram 3g emaw Trichoderma viride4g+Metalaxyl 4g (Apron) a chiah tur. - Bordeaux mixture 1% emaw 2g Captan emaw 3 copper oxychloride chu tui litre khatah pawlhin a chin atanga ni 10-15 ah leih tur.
		Leaf spot and leaf	Dithane M-45 chu tui litre khatah



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		blotch	2.5g emaw Carbendazim 1g chu tui litre khatah pawlhin karkhat danah vawi 2/3 kah tur. • Leaf spot tan Blitox 3g chu tui litre khata pawlhin kah tur.
		Leaf spot leh leaf blotch	• Tui litre khatah Dithane M-45 chu 2.5g emaw Bavistin chu 1g a pawlhin karkhat danah vawi 2/3 kah thin tur. • Leaf spot ah chuan tui litre khatah Blitox chu 3g pawlh a kah thin tur.
French bean	A par lai	MAMIT AIZAWL CHAMPAL	• 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.
		Blister beetle	• Rannung ho chu mankhawmin thah vek tur. • Cypermethrin 2g chu tui litre khata pawlhin kah thin tur
Bawkbawn	A chin dan	SERCHHIP LUNGLEI	• 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	LAWNGTLAI SAIHA	• Nursery tur chu lei dip tha darh leh tlema pawng tur (0.8m a zau leh 15cm a sei ni se). • Leitha 10kg leh bawngkek leitha 15:15:15 leh carbofuran 2.5g chawhpawlh pek tur.
		Aphids	• Surf tuin thlai chu kah tur. • Heng insecticides Imidacloprid



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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. • Bawngkek 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.



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	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)	Thla 16 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 ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



District: Aizawl

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	4	4	0
Max Temp (°C)	30	30	30	24	24
Min Temp (°C)	11	13	13	15	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	99	96
Min RH (%)	37	33	38	62	55
Wind Speed (Kmph)	3	2	2	4	3
*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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Weather summary of the past three days

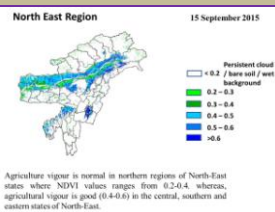
The temperature range for maximum and minimum were 29.3-30.7°C and 20.2-21.4°C respectively. Clear sky was observed. Wind direction is southeasterly. Maximum RH observed 98-99% & minimum of 72-79%. Rainfall recorded for the past three days is **00.00mm.** (Source-mosdac.gov.in)

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There are chances of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 24-30°C and 11-15°C. Maximum relative humidity is expected in the range of 96-100% and minimum may from 33-62%. Wind direction would be to easterly with the wind speed of 2-3 km per hour. Partially cloudy will prevail during the next five days.

Weekly cumulative rainfall: 08.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage		- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Banana	Flowering/ harvesting		- Cleaning near base of the plant and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²)

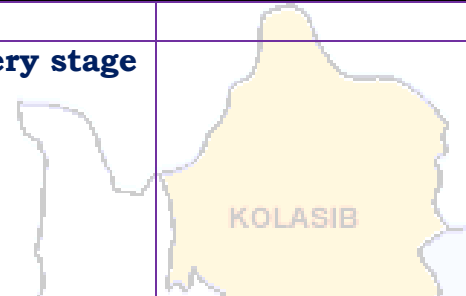
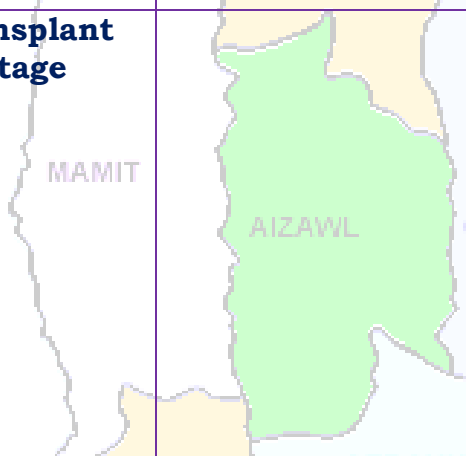
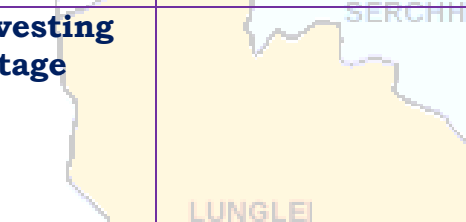
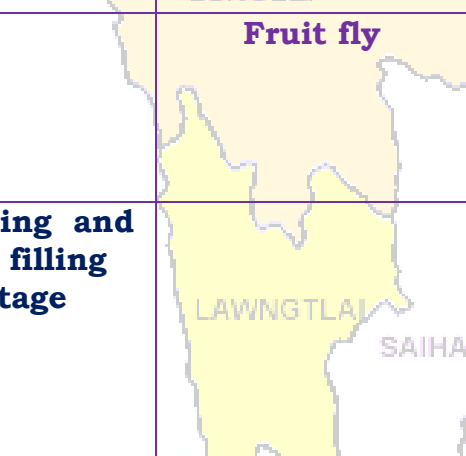


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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Chilli	Nursery stage		- Line sowing of seeds (7-10cm) - Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
		Fruit fly	- Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			moisture is available as in rainy season, they may begin to decay.
French bean	Flowering stage	KOLASIB	✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	Land preparation AIZAWL	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/m²) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off LUNGLEI	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI SAIHA	✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing		- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the 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-1 in 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-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lt) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lt) for controlling scales.
Pig	All stages	Porcine Reproductive Respiratory	Culling of positive pigs or piglets.



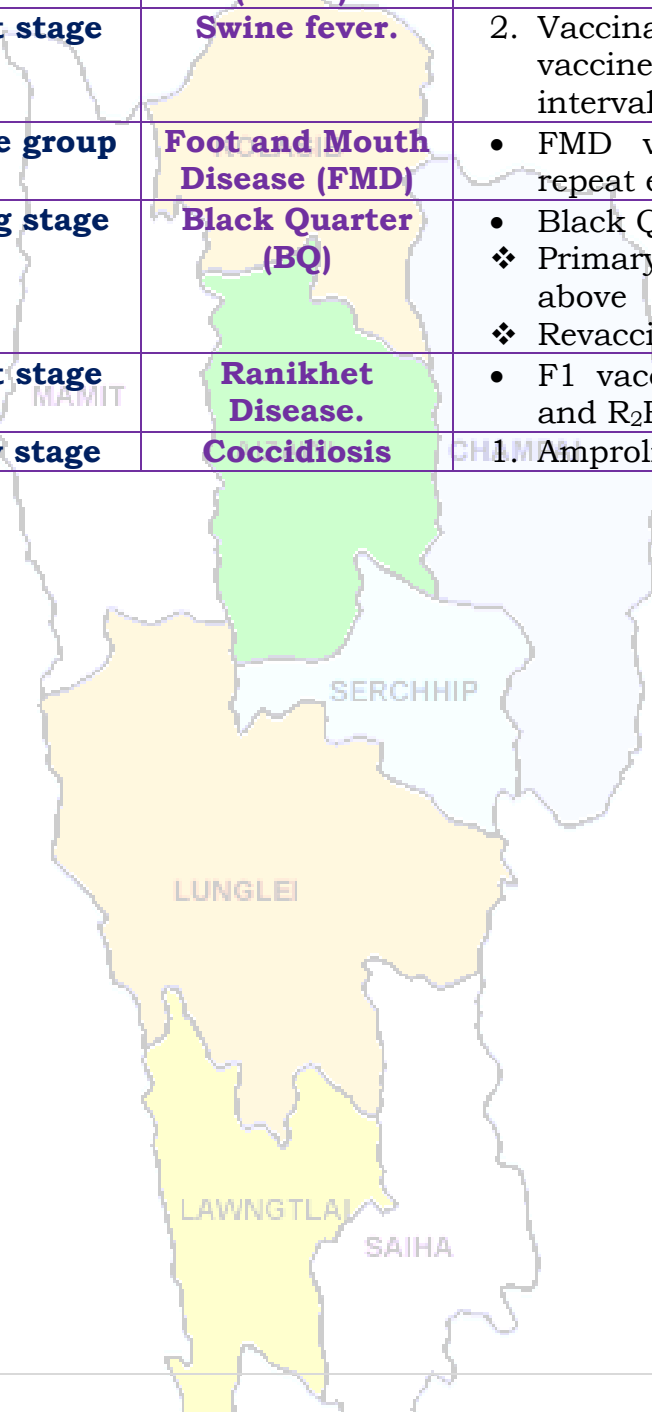
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Mizoram Centre, Kolasib- 796081, MIZORAM

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		Syndrome (PRRS).	
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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Guwahati)



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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai

Period: 28 October – 01 November, 2015

Bulletin No: -563/2015/ Bulletin/English

Date of issue: 27th October, 2015

Parameters	28.10.2015	29.10.2015	30.10.2015	31.10.2015	01.11.2015
Rainfall (mm)	0	0	6	4	3
Max Temp (°C)	29	29	29	22	22
Min Temp (°C)	11	13	13	14	15
Cloud Coverage	Clear sky	Partially clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	99	99	98	98
Min RH (%)	36	34	41	70	63
Wind Speed (Kmph)	4	2	2	3	4
*Wind Direction	S-E	S-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- September 1-30, 2015 (Percent of deviation from normal in parenthesis)

Aizawl- 387.0mm (481.6mm)	Champhai- 301.8mm (295.1mm)	Saiha- 367.7 mm (450.8mm)	Kolasib- 372.0mm (433.1mm)
Lawngtlai-365.4mm (320.7mm)	Lunglei-371.4mm (432.4mm)	Mamit-376.0mm (359.0mm)	Serchhip-301.86mm (265.4mm)

Weather summary of the past three days

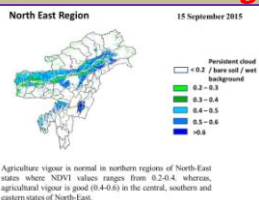
The temperature range for maximum and minimum were 23.0-24.8°C and 14.8-17.8°C respectively. Clear sky was observed. Wind direction is easterly. Maximum RH observed 83-92% & minimum of 33-41%. Rainfall recorded for the past three days is **00.00mm.**
(Source- Mosdac.gov.in)

Weather forecast valid from 28th October, 2015 To 01st November, 2015.

There are chances of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 22-29°C and 11-15°C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 34-70%. Wind direction would be to southeasterly to easterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 13.0 mm

NDVI for Mizoram



NDVI for Mizoram is less than normal NDVI. Value shown that NDVI is zero. So, it represents "Bare Soil".



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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Transplant stage	Pruning and Training KOLASIB MAMIT AIZAWL CHAMPA SERCHHIP	- After 6 months to 1 year from the date of planting, 4-5 well shaped branches spread on all the four sides are retained and others cut at their bases 20-25 cm above ground level in case of seedling trees, while 5-7 cm above bud union in case of budded plants. - A smaller dose of these nutrients (250-300 g N, 200-250 g P₂O and 250-300 g KO) is required for other citrus fruits also. Liming is also beneficial to citrus, especially in this region because of its acidic soil. - Lime can also be sprayed along with other nutrients but in the long run basal application is more beneficial at the rate of 500-800 g per plant.
Oil plam	Flowering stage/Fruit formation stage	LUNGLEI LAWNGTLAI SAIHA	- Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - Retain sufficient fronds and remove surplus fronds to provide optimal leaf area index (LAI).
Banana	Flowering/		Cleaning near base of the plant



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	harvesting		and cut unwanted branches. - Application of split dose of fertilizer 600: 200:100 (g/pt) in flowering plant. - 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 for fruit bearing plant. - 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	- Applications of neem powder effectively controlled weevils. - 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. - Application of over 100 g or neem oil was phytotoxic (harmful to plants) and uneconomical.
Brinjal	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/m²) - Line sowing of seeds (7-10cm)

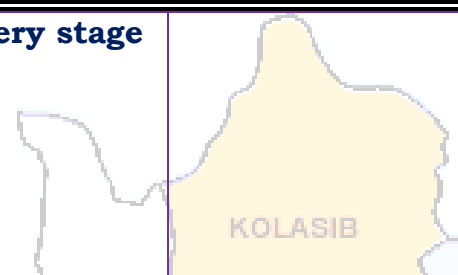
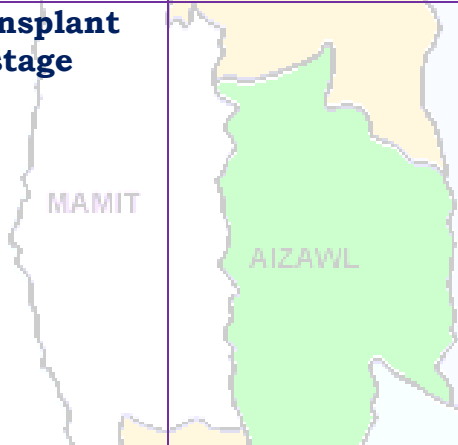
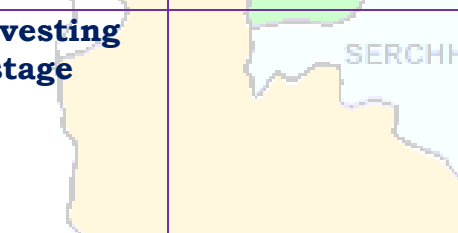


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Mizoram Centre, Kolasib- 796081, MIZORAM

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Chilli	Nursery stage		- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
Tomato	Transplant stage		- Tomato is planted in well pulverized and leveled field. - Tomato is normally planted in raised beds of 60 to 75 cm width. - The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. - In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges.
Passion Fruit	Harvesting stage		- Indication of fruit harvest will change colour green to slight purple. - To prevent weight loss or shrinking keep in cool place in room or sale it quickly
			Fruit fly - Jiggery (50g) + malathion (10ml) is recommended for the management of fruit flies. - Spray any contact poison like Spinosad or cypermethirn (2ml/lt).
Pineapple	Planting and gap filling stage		- Double row planting is done by alternating two rows of crops by a wider mound or path. - The pineapple suckers are allowed to dry at least for 25-30 days before planting. In fact, if fresh suckers are planted in moist soil, or if more moisture is available as in rainy

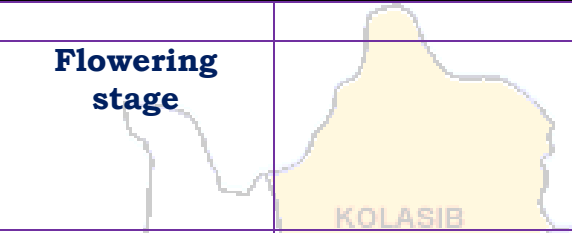
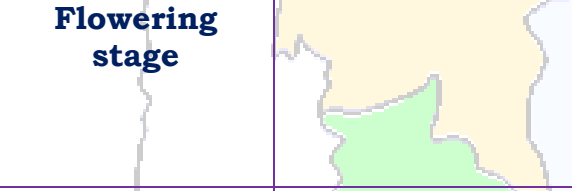
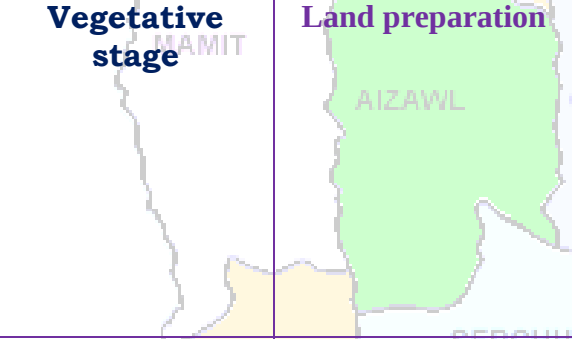
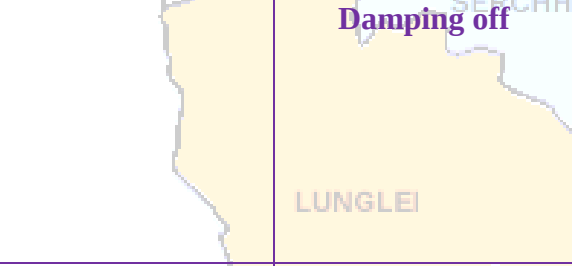
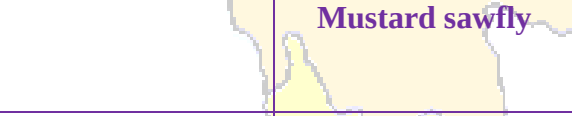


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Mizoram Centre, Kolasib- 796081, MIZORAM

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



French bean	Flowering stage		season, they may begin to decay. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cowpea	Flowering stage		✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base. ✚ Apply split dose of nitrogen near base of the plant.
Cole crop	Vegetative stage	 Land preparation	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m²) ✓ Fertilizer application 180:50:50 kg/ha.
		 Damping off	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✚ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		 Mustard sawfly	✚ Application of carbofuran 3G @ 100g/m² in nursery is quite effective.
Mustard and toria	Sowing		✚ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✚ Full amount of phosphorus and



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB MAMIT AIZAWI CHAMPHAI	- Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. - Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Ginger and turmeric	Vegetative stage	SERCHHIP LUNGLEI	- Remove unwanted plant near base of the 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-1 in 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-1-large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Thrips	Spray Roger or Monocrotophos (2.5 ml/lit) for controlling thrips.
		Scales	Spray Quinalphos or Monocrotophos (2.5 ml/lit) for controlling scales.
Pig	All stages	LAWNGTLAI SAIHA Porcine Reproductive Respiratory Syndrome	1. Culling of positive pigs or piglets.



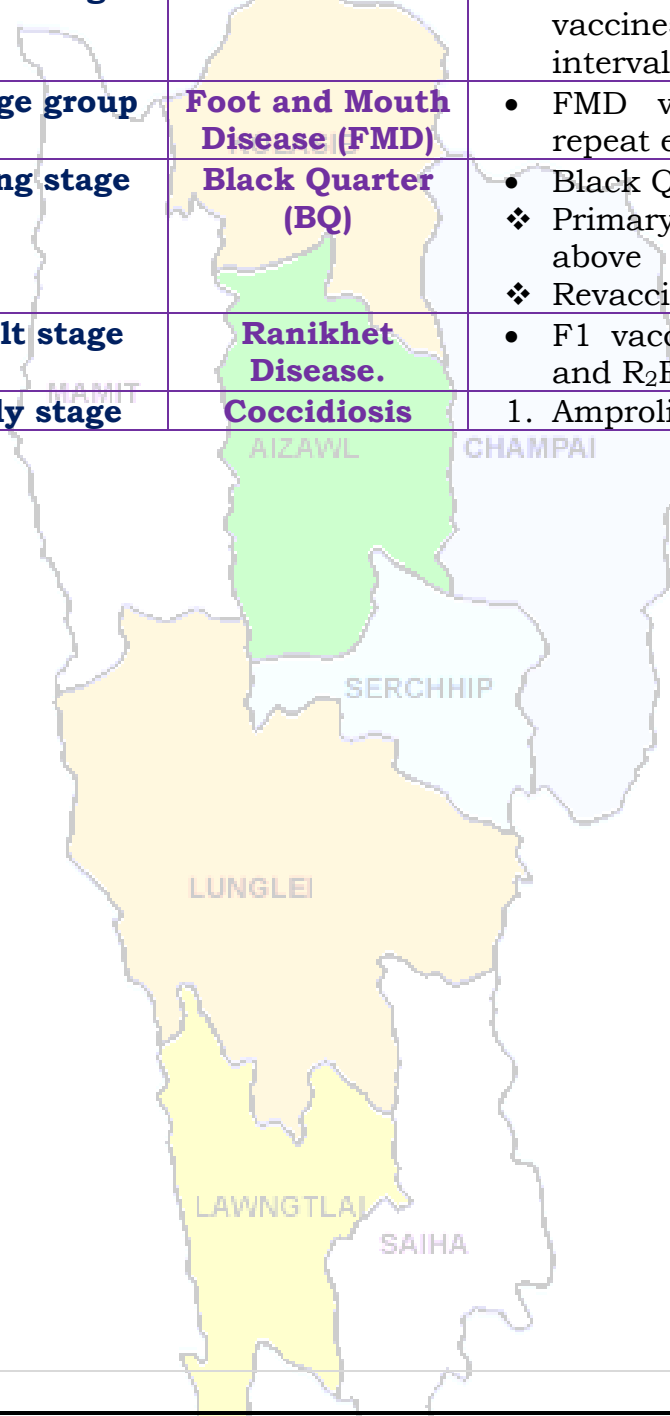
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



	Adult stage	(PRRS). 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat





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