



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	11	11	11	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	89	99	98	98	93
Min RH (%)	28	21	19	16	19
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	S-E	S-E	S-E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):21-25°C
Minimum Tem. (°C):14-15°C
Maximum RH (%):89-98%
Minimum RH (%):39-48%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind speed: 3 km/hr

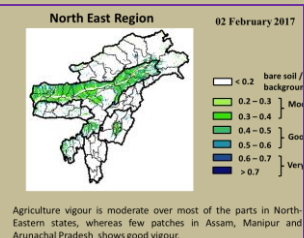
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 11-12°C ni tura beisei a ni. RH san lai berin 89-99% leh a hniam lai berin 16-28% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS).
	Adult stage		Swine fever.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhunzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



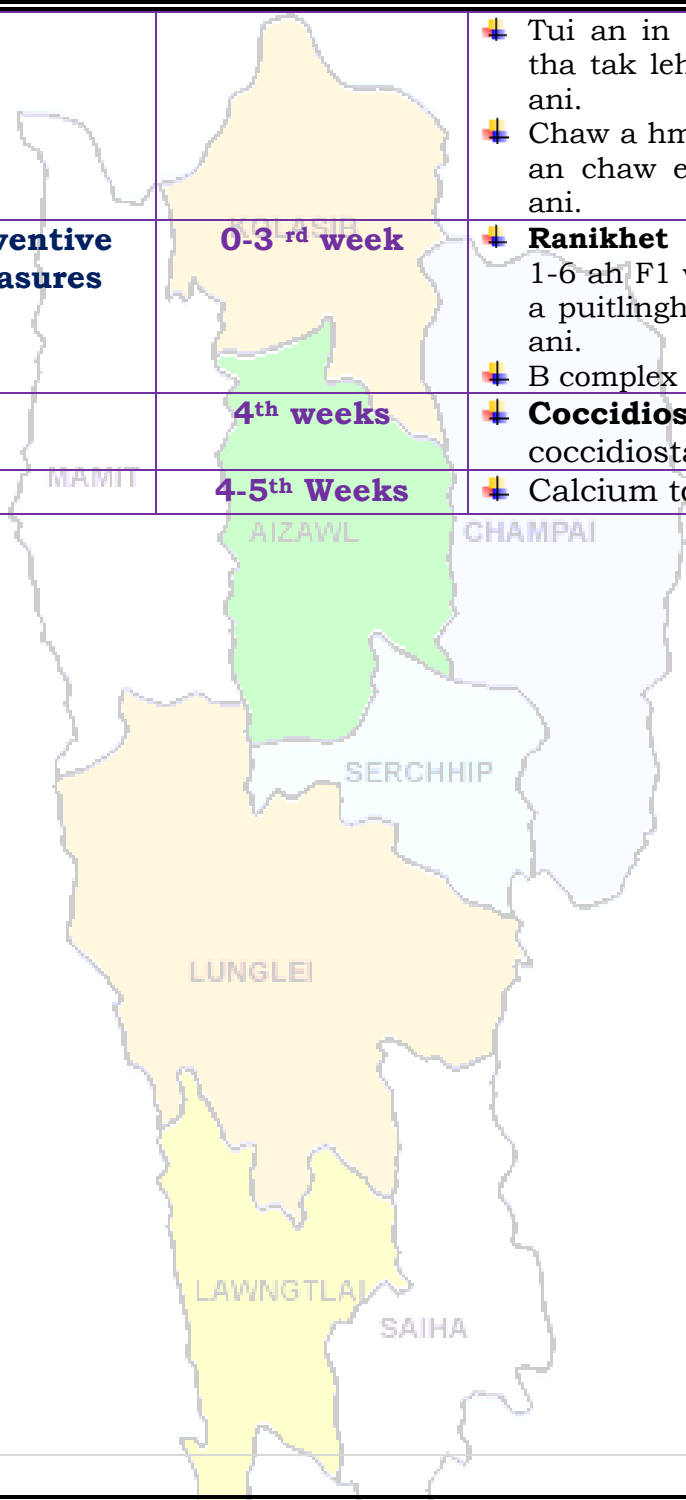
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Lawngtlai

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	11	12	12	12	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	70	62	58	50	52
Min RH (%)	23	16	14	12	15
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):67-92%
Minimum RH (%):32-48%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 3 km/hr

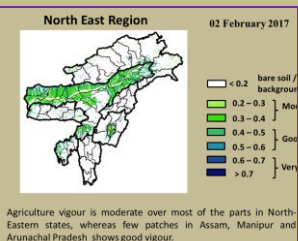
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 11-12°C. Maximum relative humidity is expected in the range of 50-70% and minimum may from 12-23%. Wind direction would be northeasterly to easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

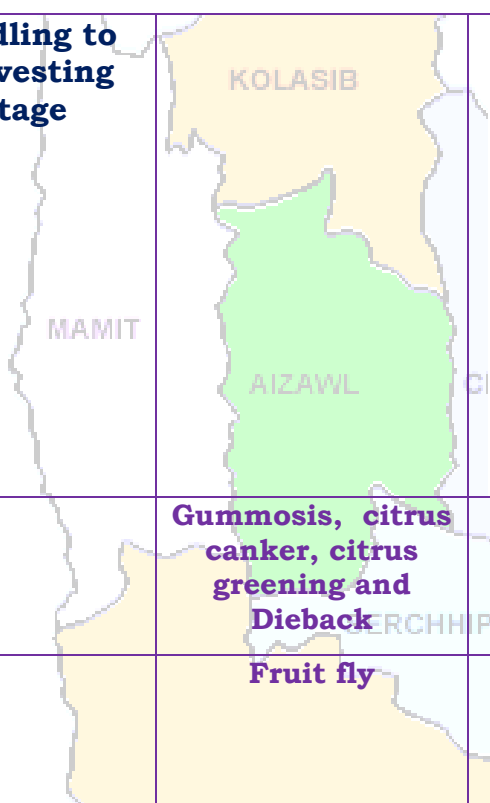


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS



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Rabi Maize	Germination stage	KOLASIB	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. - Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	MAMIT AIZAWL CHAMPAI SERCHHIP	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Mulching should be done with dry grasses in farrow conserve soil moisture during winter. - If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
		Mustard sawfly and cabbage butterfly LUNGLEI	- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Earthing up soil for better aeration of root growth. - If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	CHINTELE SAIHA	- Prevailing weather may conducive for blight in Tomato. - Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

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



Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	11	12	12	12	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	70	62	58	50	52
Min RH (%)	23	16	14	12	15
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):67-92%
Minimum RH (%):32-48%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 3 km/hr

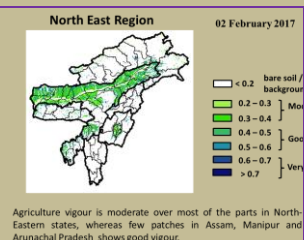
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 11-12°C ni tura beisei a ni. RH san lai berin 50-70% leh a hniam lai berin 12-23% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K ₂ O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

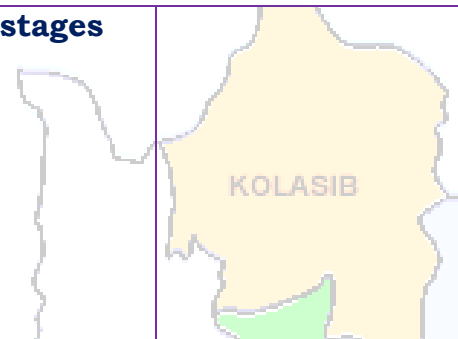
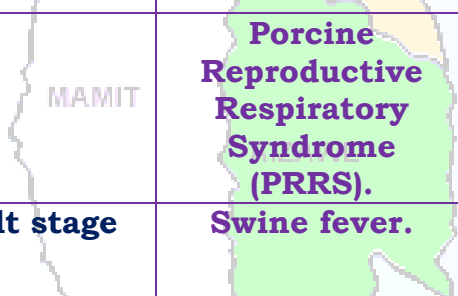
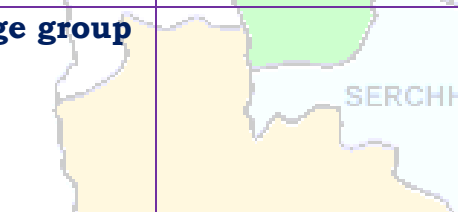
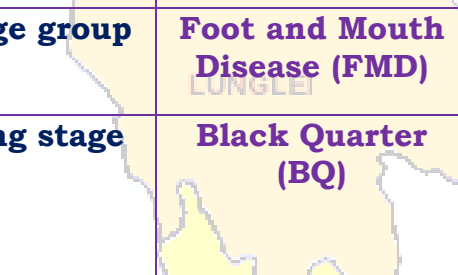
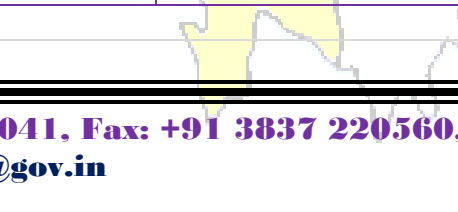


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS).
	Adult stage		Swine fever.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



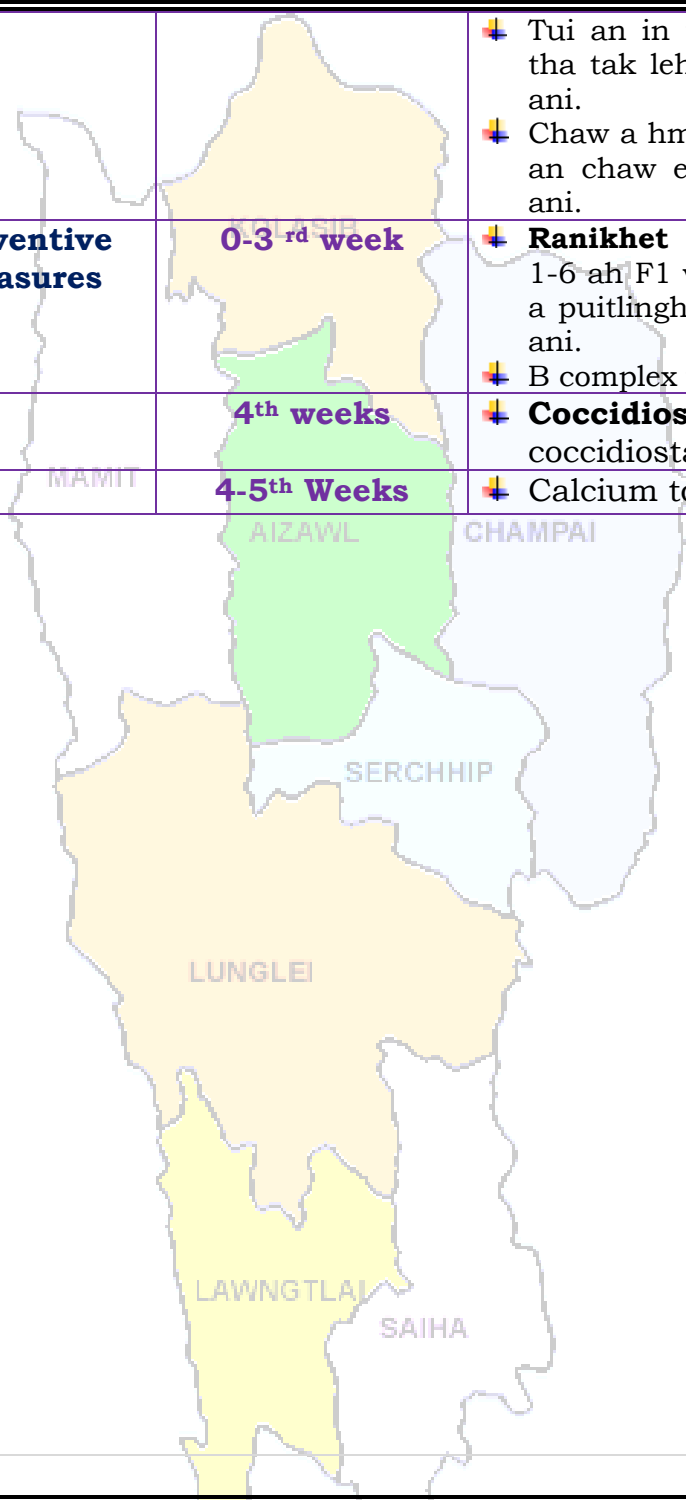
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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



District: Lunglei

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	87	93	81	59
Min RH (%)	24	17	15	12	17
Wind Speed (Kmph)	3	2	3	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 18-22°C
Minimum Tem. (°C): 9-12°C
Maximum RH (%):84-98%
Minimum RH (%):34-47%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind Speed: 2km/hr

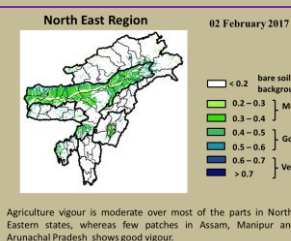
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 10-11°C. Maximum relative humidity is expected in the range of 81-95% and minimum may from 12-24%. Wind direction would be easterly to northeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

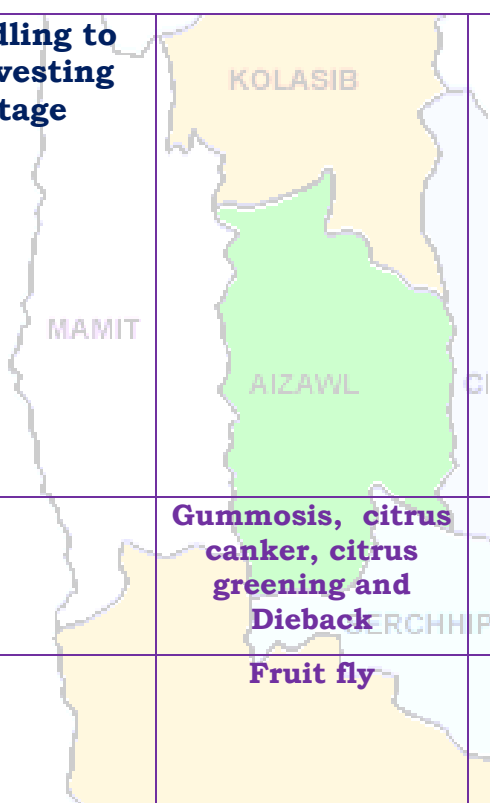


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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS

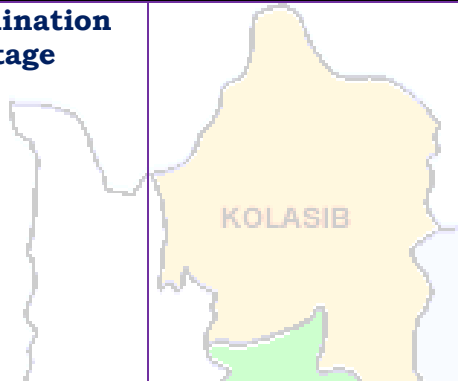
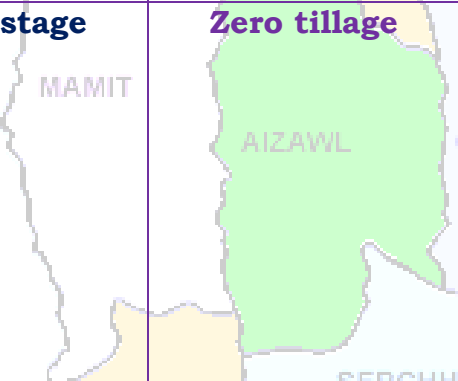
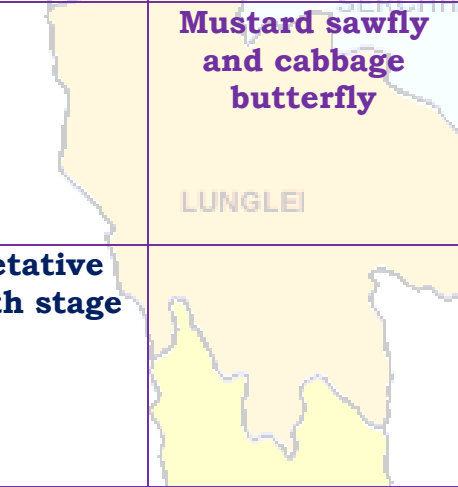
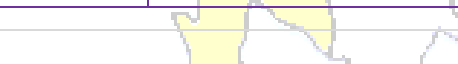


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Rabi Maize	Germination stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Mulching should be done with dry grasses in farrow conserve soil moisture during winter. ✚ If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
			✚ Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. ✚ Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Lunglei

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	87	93	81	59
Min RH (%)	24	17	15	12	17
Wind Speed (Kmph)	3	2	3	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 18-22°C
Minimum Tem. (°C): 9-12°C
Maximum RH (%):84-98%
Minimum RH (%):34-47%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind Speed: 2km/hr

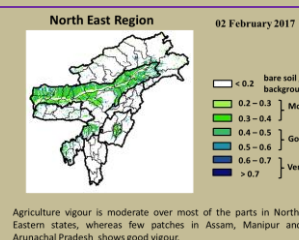
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 10-11°C ni tura beisei a ni. RH san lai berin 81-95% leh a hniam lai berin 12-24% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

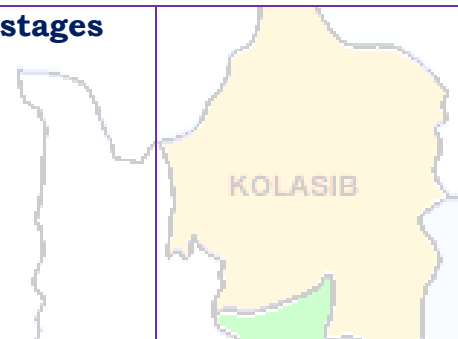
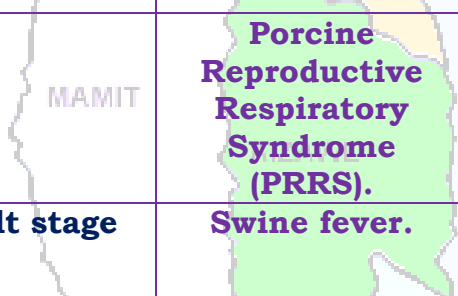
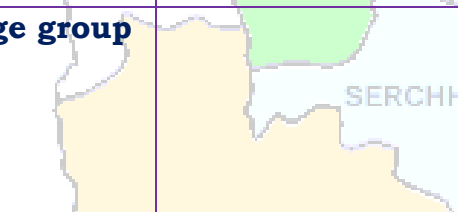
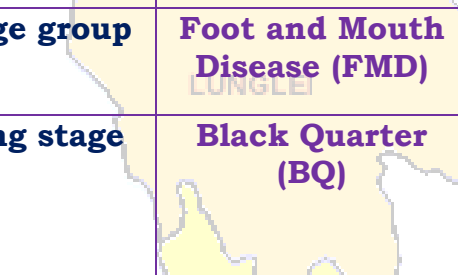
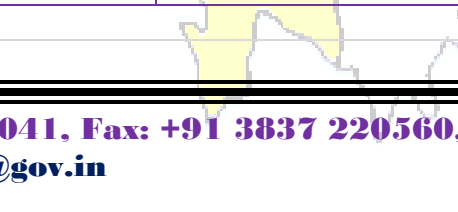


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS). 1. Vawknote emaw vawk lak hran.
	Adult stage		Swine fever. 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



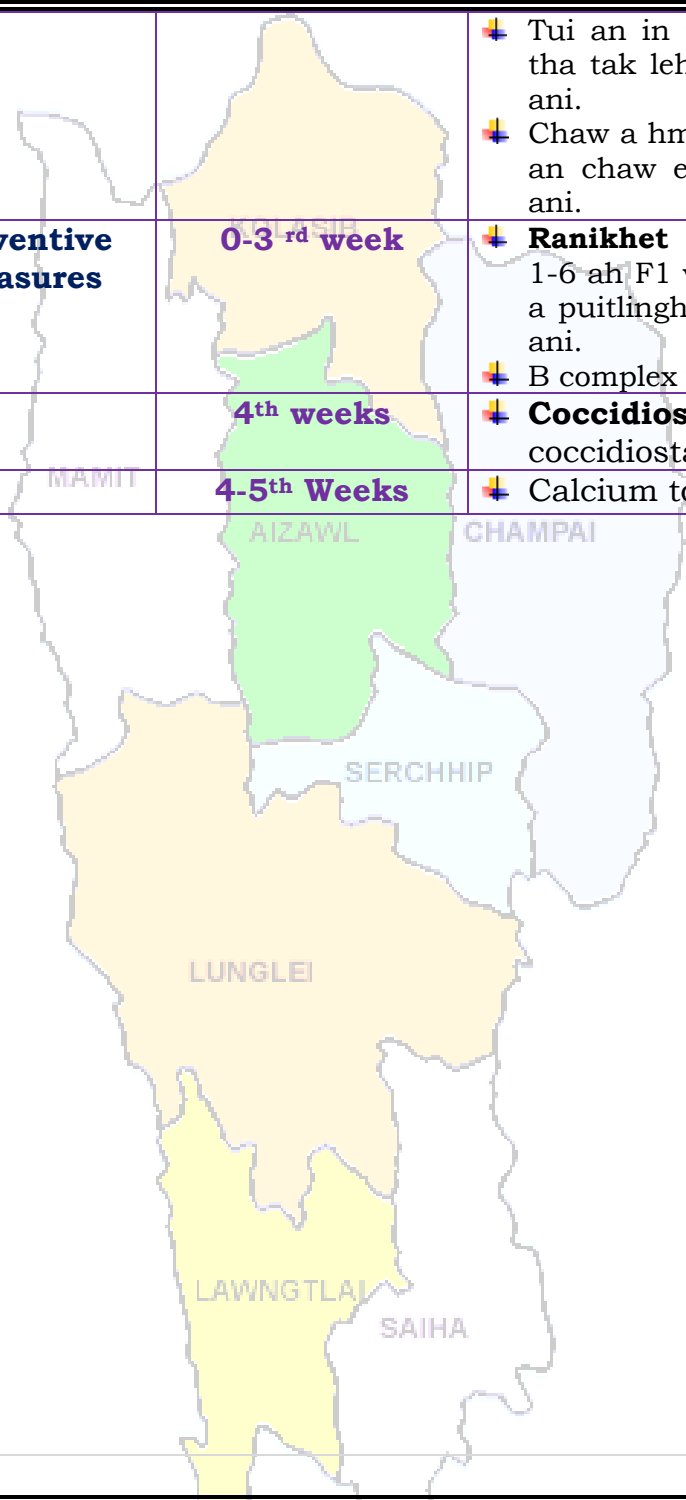
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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)



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	12	12	12	12	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	84	95	99	93	83
Min RH (%)	26	19	17	14	18
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	S-E	S-E	S-E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):23-25°C
Minimum Tem. (°C):10-14°C
Maximum RH (%):85-99%
Minimum RH (%):31-43%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4 km/hr

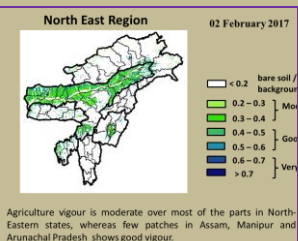
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 12-13°C. Maximum relative humidity is expected in the range of 83-99% and minimum may from 14-26%. Wind direction would be southeasterly to easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
	MAMIT	Coffee Berry borer AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS



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Rabi Maize	Germination stage	KOLASIB	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. - Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	MAMIT AIZAWL CHAMPAI SERCHHIP	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Mulching should be done with dry grasses in farrow conserve soil moisture during winter. - If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
		Mustard sawfly and cabbage butterfly LUNGLEI	- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Earthing up soil for better aeration of root growth. - If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	CHINTELE SAIHA	- Prevailing weather may conducive for blight in Tomato. - Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

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



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District: Mamit

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

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Min RH (%)	26	19	17	14	18
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*Wind Direction	S-E	S-E	S-E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):23-25°C
Minimum Tem. (°C):10-14°C
Maximum RH (%):85-99%
Minimum RH (%):31-43%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4 km/hr

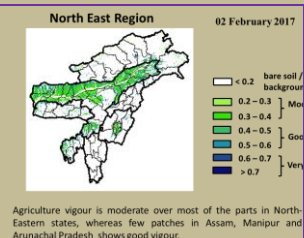
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 12-13°C ni tura beisei a ni. RH san lai berin 83-99% leh a hniam lai berin 14-26% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



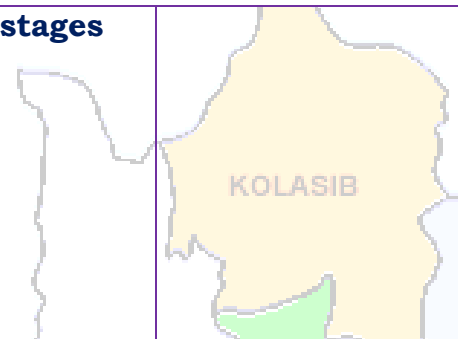
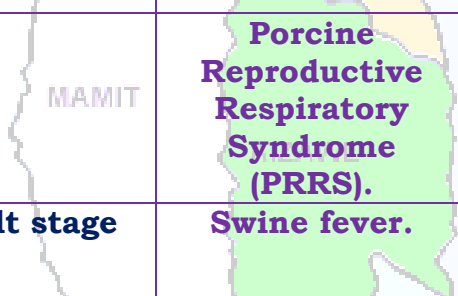
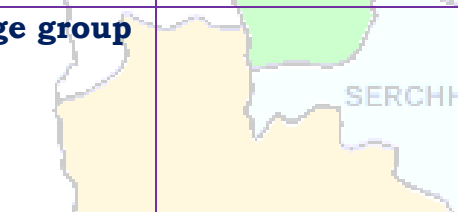
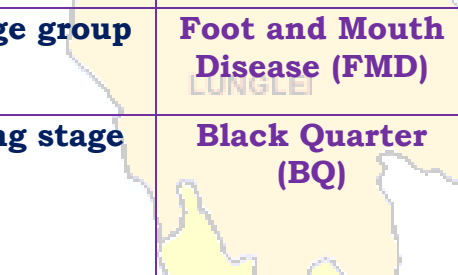
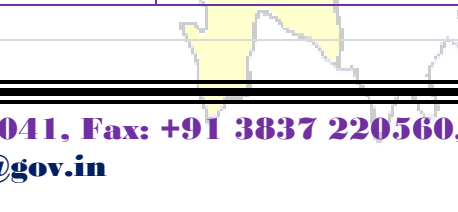
GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS). 1. Vawknote emaw vawk lak hran.
	Adult stage		Swine fever. 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



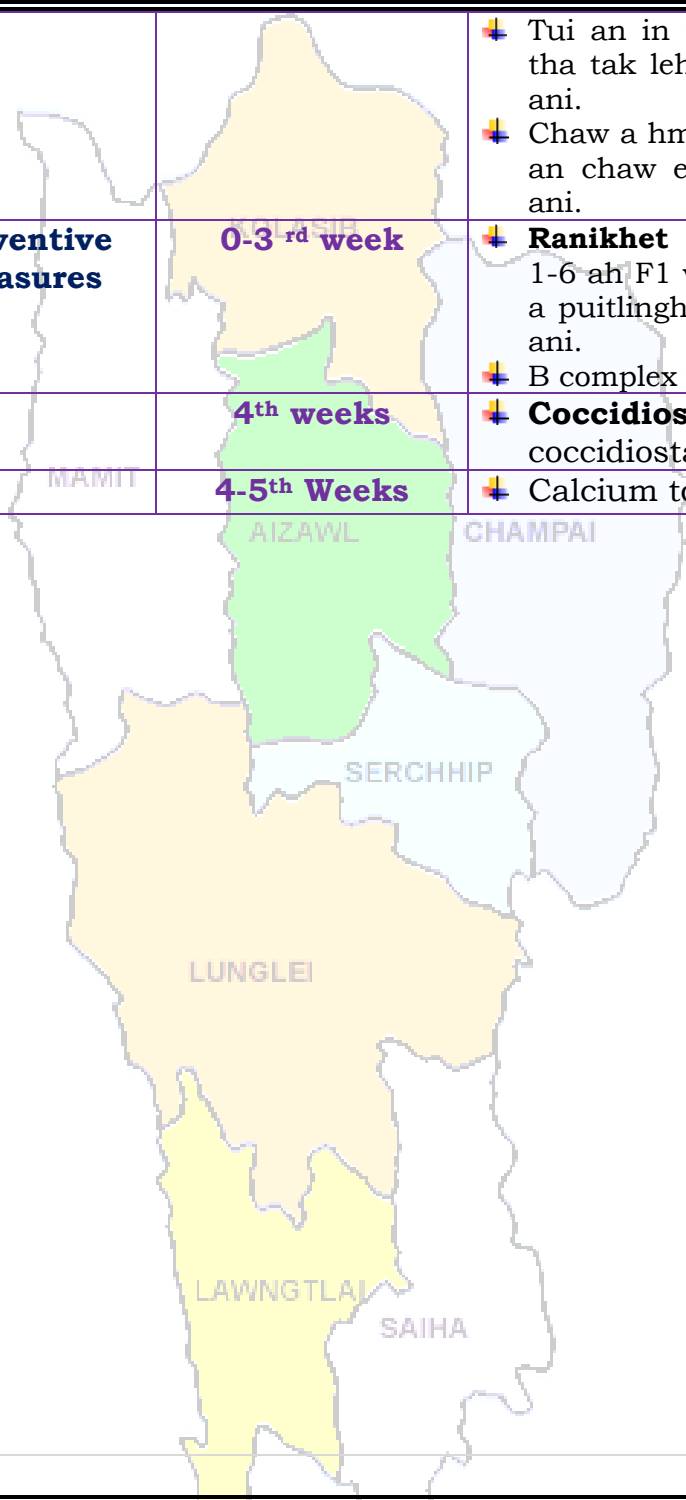
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Mizoram Centre, Kolasib- 796081, MIZORAM

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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Mizoram Centre, Kolasib- 796081, MIZORAM

(Prepared based on District wise Weather Forecast received from IMD,
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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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



District: Saiha

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	12	12	12	12	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	69	64	57	51	53
Min RH (%)	21	25	23	21	25
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 17-21°C
Minimum Tem. (°C): 8-12°C
Maximum RH (%):81-90%
Minimum RH (%):29-32%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 4km/hr

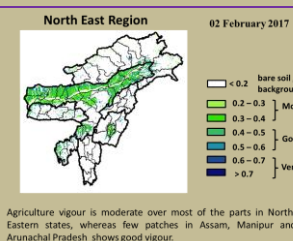
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-30°C and 12-13°C. Maximum relative humidity is expected in the range of 51-69% and minimum may from 21-25%. Wind direction would be northeasterly to easterly with the wind speed of 4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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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
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
	MAMIT	Coffee Berry borer AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS

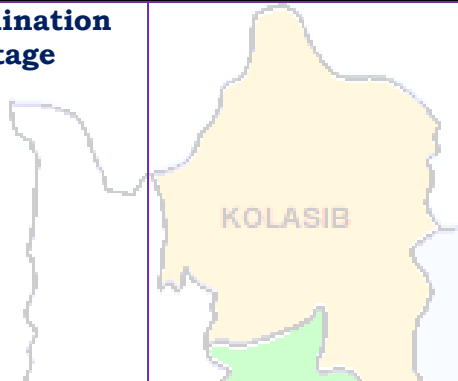
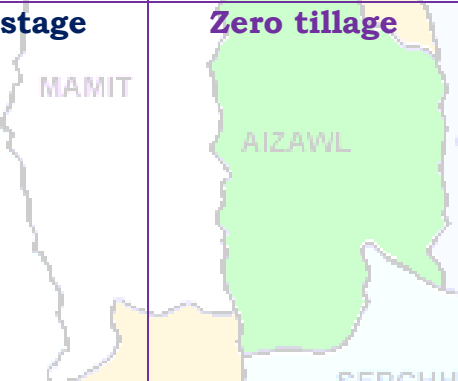
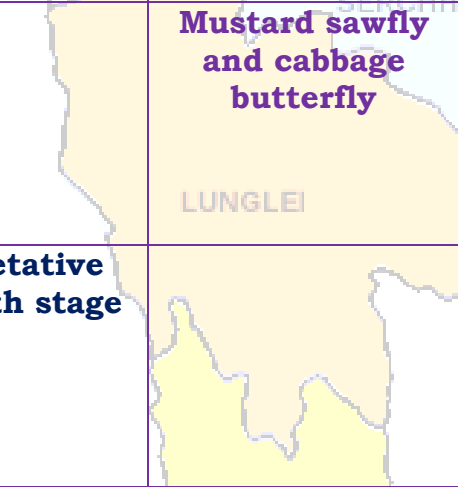
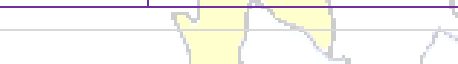


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Rabi Maize	Germination stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Mulching should be done with dry grasses in farrow conserve soil moisture during winter. ✚ If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
			✚ Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. ✚ Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Saiha

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	30	30	30
Min Temp (°C)	12	12	12	12	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	69	64	57	51	53
Min RH (%)	21	25	23	21	25
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	N-E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 17-21°C
Minimum Tem. (°C): 8-12°C
Maximum RH (%):81-90%
Minimum RH (%):29-32%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 4km/hr

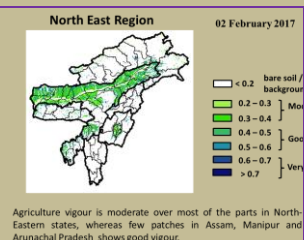
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 12-13°C ni tura beisei a ni. RH san lai berin 51-69% leh a hniam lai berin 21-25% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun lain natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

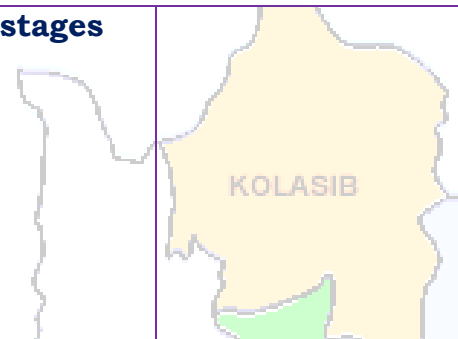
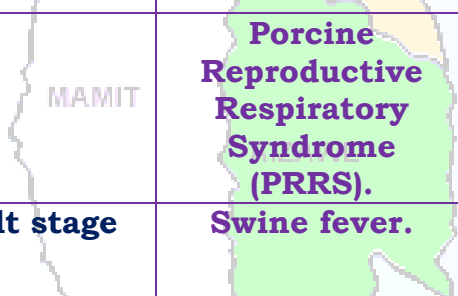
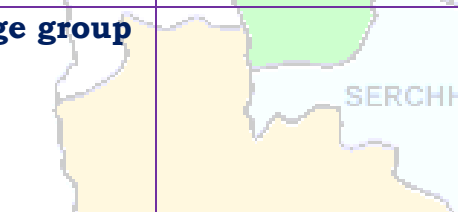
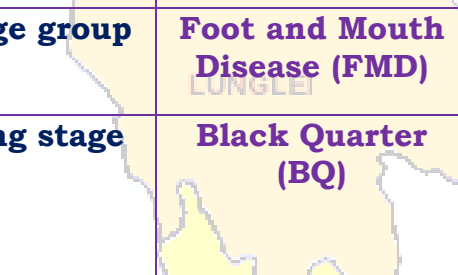
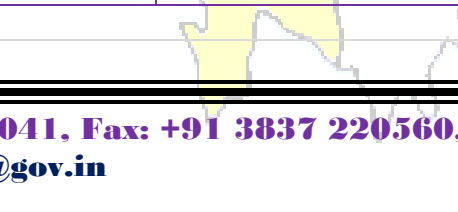


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawh hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS). 1. Vawknote emaw vawh lak hran.
	Adult stage		Swine fever. 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawh tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawh, chaw tha an mamawh tawh leh tui thianghlim an mamawh tawh an hmu tur ani a. - An hriselna atan enkawltha tha tawh tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



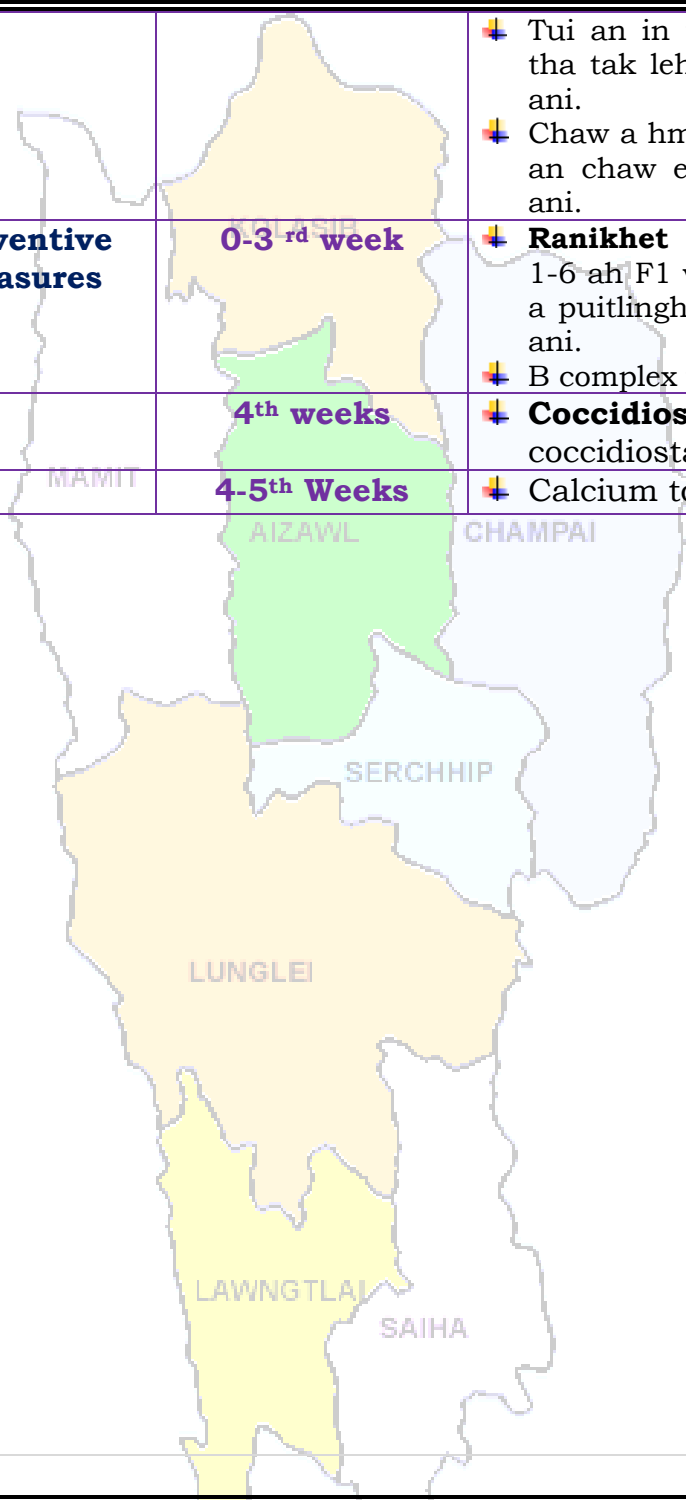
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Serchhip

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	31	30	30
Min Temp (°C)	12	11	10	12	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	65
Min RH (%)	24	27	25	23	28
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	S-E	E	E

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

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

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

**Weather summary of the past
three days**

Maximum Tem. (°C):19-23°C
Minimum Tem. (°C): 12-13°C
Maximum RH (%):86-100%
Minimum RH (%):31-45%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 2-4 km/hr

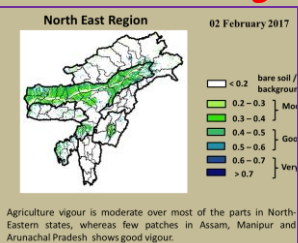
Rainfall: 00.0 mm

**Weather forecast valid from 08th February, 2017 To
12th February, 2017.**

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 10-16°C. Maximum relative humidity is expected in the range of 65-100% and minimum may from 23-28%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS

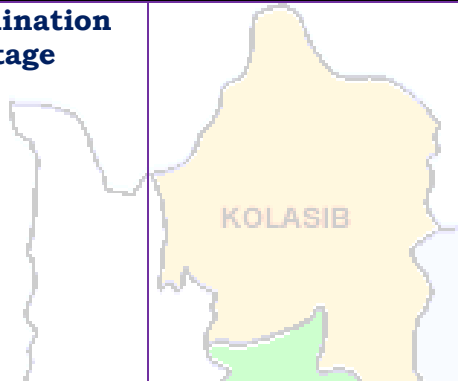
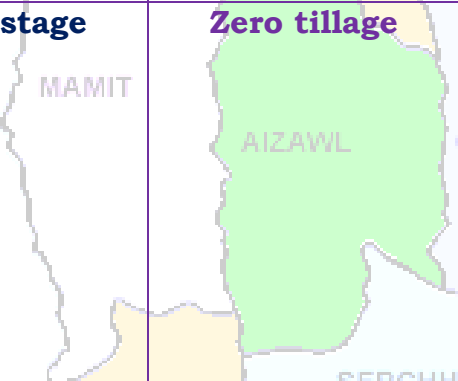
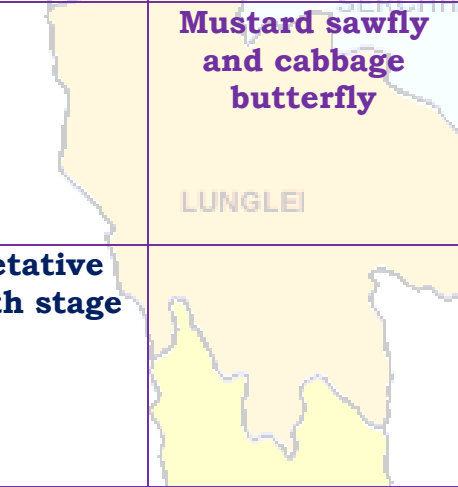
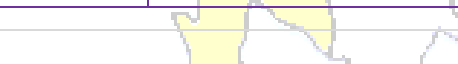


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Rabi Maize	Germination stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Mulching should be done with dry grasses in farrow conserve soil moisture during winter. ✚ If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
			✚ Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. ✚ Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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)



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Serchhip

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	30	31	30	30
Min Temp (°C)	12	11	10	12	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	65
Min RH (%)	24	27	25	23	28
Wind Speed (Kmph)	4	2	2	4	4
*Wind Direction	E	E	S-E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):19-23°C
Minimum Tem. (°C): 12-13°C
Maximum RH (%):86-100%
Minimum RH (%):31-45%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 2-4 km/hr

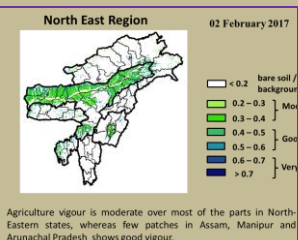
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 29-31°C a ni ang a. A vawh lai ber in 10-16°C ni tura beisei a ni. RH san lai berin 65-100% leh a hniam lai berin 23-28% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

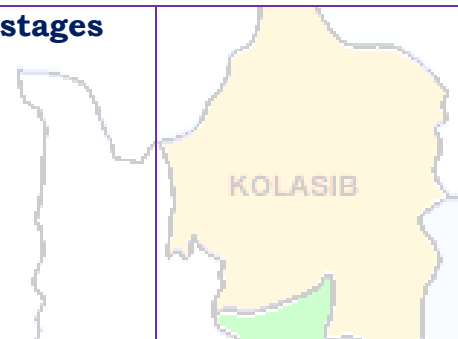
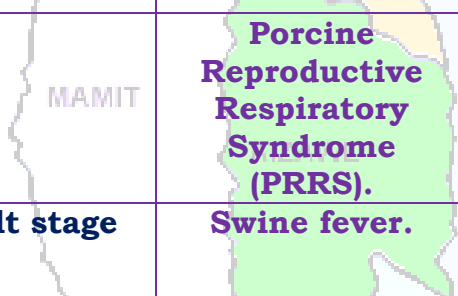
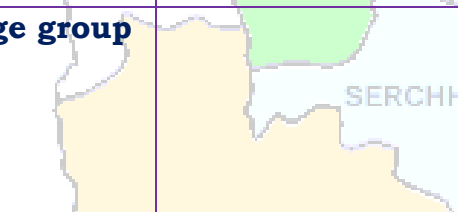
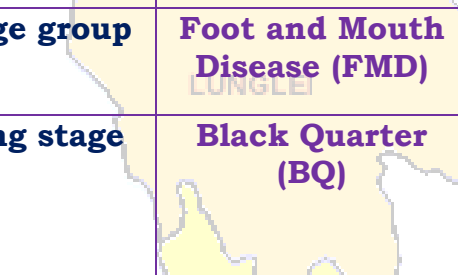
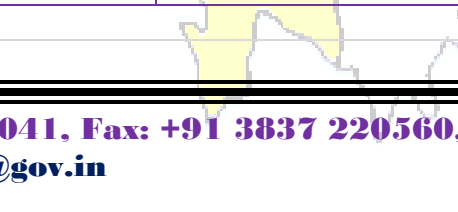


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS). 1. Vawknote emaw vawk lak hran.
	Adult stage		Swine fever. 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



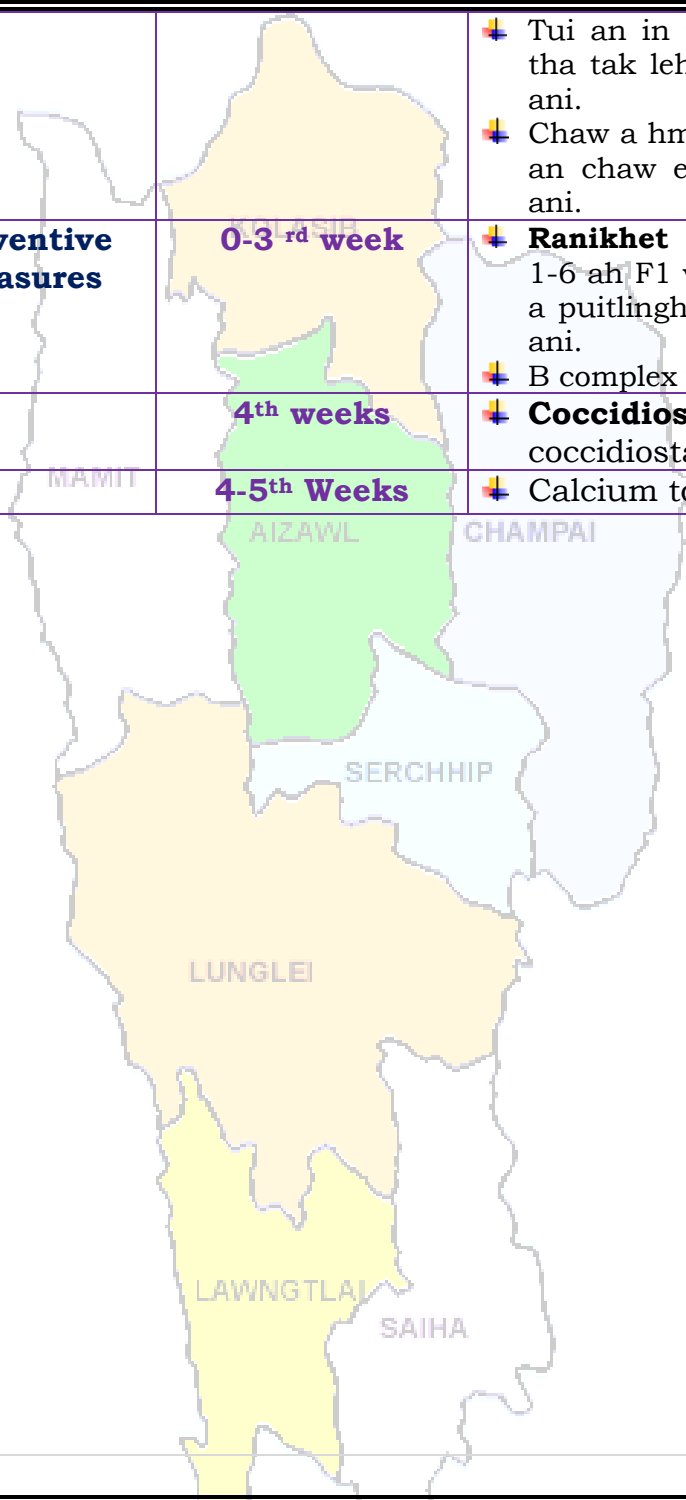
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	8	8	9	10	10
Cloud Coverage	Mainly clear	Partially clear	Clear sky	Clear sky	Clear sky
Max RH (%)	92	98	100	96	86
Min RH (%)	27	19	17	15	18
Wind Speed (Kmph)	4	3	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 24-28°C
Minimum Tem. (°C): 10-12°C
Maximum RH (%):81-90%
Minimum RH (%):30-46%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind speed: 2-4 km/hr

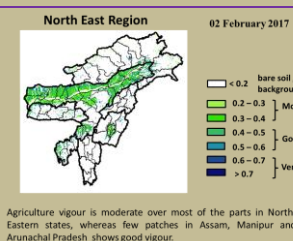
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 8-10°C. Maximum relative humidity is expected in the range of 86-100% and minimum may from 15-27%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS

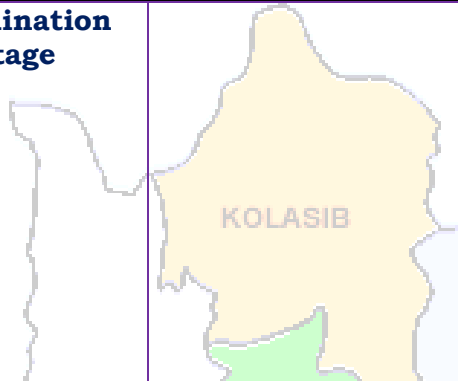
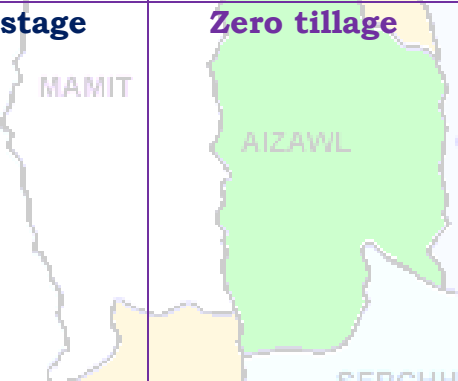
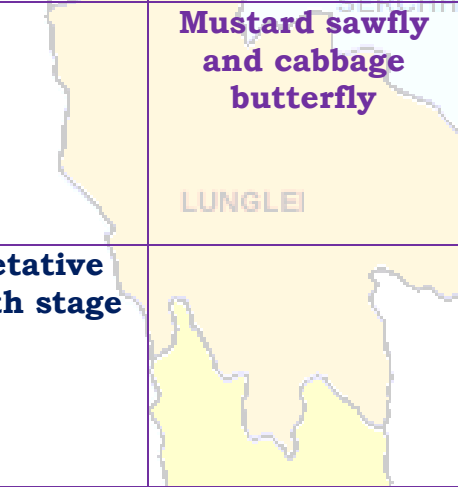
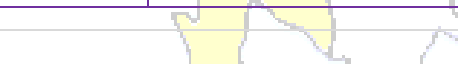


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Rabi Maize	Germination stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Mulching should be done with dry grasses in farrow conserve soil moisture during winter. ✚ If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
			✚ Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. ✚ Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Aizawl

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	8	8	9	10	10
Cloud Coverage	Mainly clear	Partially clear	Clear sky	Clear sky	Clear sky
Max RH (%)	92	98	100	96	86
Min RH (%)	27	19	17	15	18
Wind Speed (Kmph)	4	3	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 24-28°C
Minimum Tem. (°C): 10-12°C
Maximum RH (%):81-90%
Minimum RH (%):30-46%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind speed: 2-4 km/hr

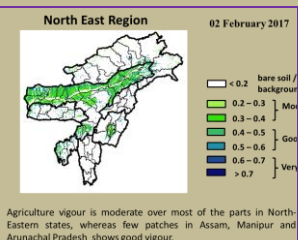
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-29°C a ni ang a. A vawh lai ber in 8-10°C ni tura beisei a ni. RH san lai berin 86-100% leh a hniam lai berin 15-27% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a tawk vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	- A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani - Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		- Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. - A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		- A than a that theih nan nikhat danah tui pek thin tur ani. - Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.



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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS).
	Adult stage		Swine fever.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



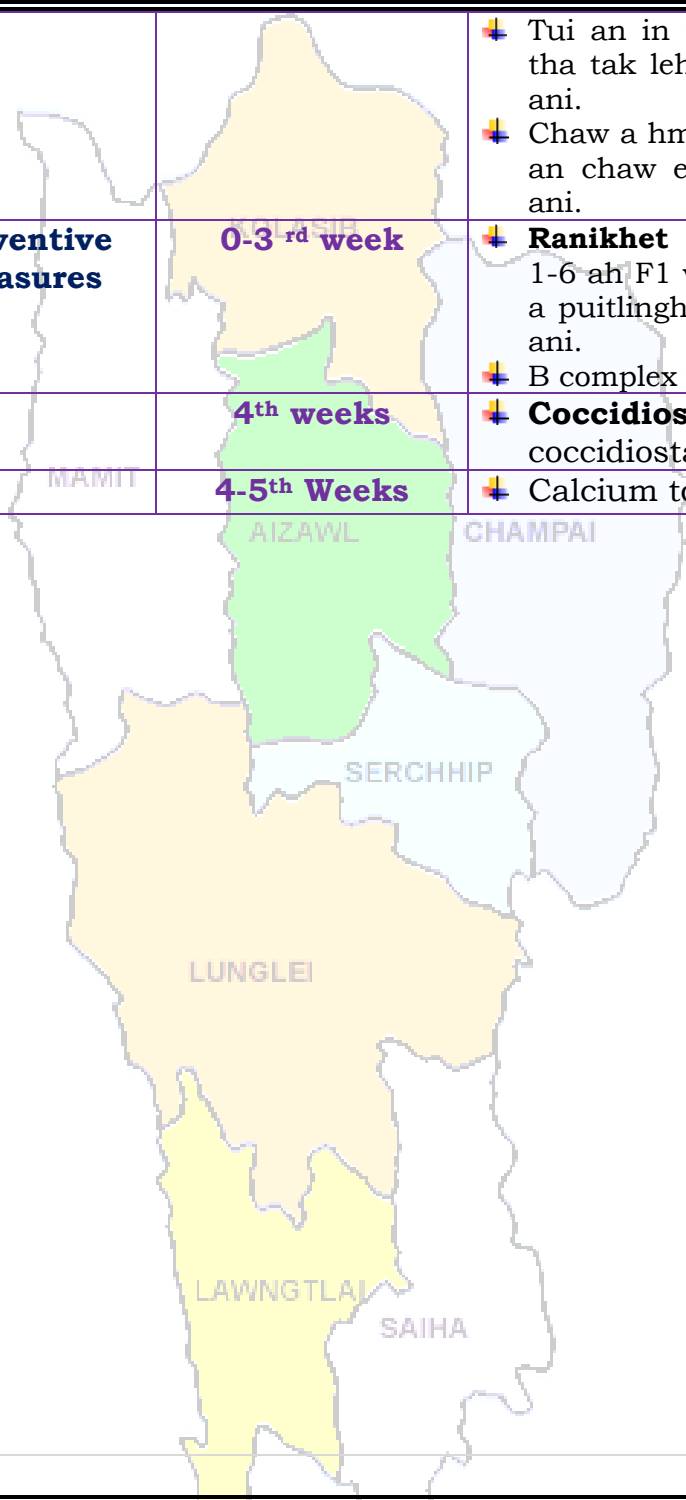
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	30	31	30	30
Min Temp (°C)	13	12	11	12	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	93	96	95	90	73
Min RH (%)	25	20	18	15	19
Wind Speed (Kmph)	4	3	4	5	4
*Wind Direction	S-E	S-E	S	S-E	S-E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 20-25°C
Minimum Tem. (°C): 09-11°C
Maximum RH (%):83-92%
Minimum RH (%):34-47%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 4 km/hr

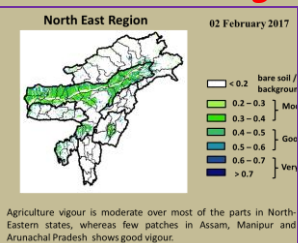
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-31°C and 11-16°C. Maximum relative humidity is expected in the range of 73-96% and minimum may from 15-25%. Wind direction would be southeasterly to southerly and southeasterly with the wind speed of 3-5 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS



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Rabi Maize	Germination stage	KOLASIB	- Light irrigation on every week may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. - Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	MAMIT AIZAWL	- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Earthing up soil near to plant for better support. - Mulching should be done with dry grasses in farrow conserve soil moisture during winter.
		Mustard sawfly and cabbage butterfly	- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage	LUNGLEI	- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Earthing up soil for better aeration of root growth. - If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LAWNGTLAI SAIHA	- Prevailing weather may conducive for blight in Tomato. - Cloudy and humid weather is most favorable for the disease. - To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.



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Early Cole crop	Black spot disease	KOLASIB	- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
		MAMIT Mustard sawfly and cabbage butterfly	- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage	SERCHHIP LUNGLEI	- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
		Phytophthora blight	- 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.
French bean	Sowing stage	LAWNGTLAI SAIHA	- Provide light irrigation with mulching. Before irrigation weeding and thinning must be done for proper growth of the crop. - Earthing up soil for better growth and



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			weed free. - Apply 2% urea solution which gives good growth and development. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
Carrot and radish	Sowing stage		
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Champhai

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/Mizo

Date of issue: 07th February, 2017

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 20-25°C
Minimum Tem. (°C): 09-11°C
Maximum RH (%):83-92%
Minimum RH (%):34-47%
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Cloud cover: Mainly clear
Wind Speed: 4 km/hr

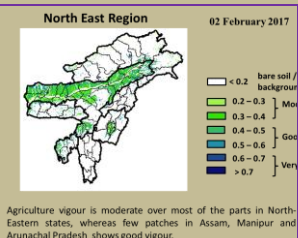
Rainfall: 00.0 mm

08th February– 12th February, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-31°C a ni ang a. A vawh lai ber in 11-16°C ni tura beisei a ni. RH san lai berin 73-96% leh a hniam lai berin 15-25% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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			Harvesting Stage - Coffe rah hmin hi thlasik lain an seng thin a ni. - A rah hmin tha lo ho chu nuai sawm hmain an thliar hrang leh vek thin ani.
		Coffee Berry borer	- A hun takah leh fimkhur taka seng tur ani. - Hmaih neih nuaih loh tur ani. - Sneg hmaih te lakkhawma paih vek tur ani. - Seng bang zawng zawng chu uluka taka paih fai vek tur ani. - A thlai vennan a rah tlai ho chu paih vek tur ani. - Hmun dam lutukah dah loh tur. - Boruak tha taka a hmuh theih nan leh a rawn chawr no theih nan thlai chu uluk tak a hlawi tur ani. - Chuan hei hian kah tur ani. Quinalphos 25 EC @ 340 ml/200 lit emaw lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - In leh loa sawngbawl a a ro dan tur tawkah chuan: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % leh robusta cherry 11.0 %.
		Coffee Rust	- Natna hrik in a khawih tawh a hnah leh a dang te paihpaih vek tur ani. - Bordeaux mixture 0.5% in February - March (Pre-bloom) a kah phawt a, Oxycarboxin 0.03% in May - June (Pre-monsoon) ah kah chhunzawm tur ani.
CEREALS AND PULSE CROPS			
Rabi Maize	A chin hun		- Vaimim chinna tur atan lei kan let phut darh anga. - Hei hian a rawn to chhuah na tur atan a pui dawn a ni. - A chi chu kan lei leh saah chuan kan dah ang. - A chi chu Thiram @4 g/kg seed hian ak sawngbawl hmasa anga. 20-25 kg/ha vel a chi thlak hi a taw vel viau ani. - A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P₂O₅ leh



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			K₂O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage	- A than a that theih nan nikhat danah tui pek thin tur ani. - Lei rih vur hian thlai kung te a veng ve ani. - Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	Sowing stage		- Muangchang loving alu chin na tur chu buatsaih vat tur ani. - Hei hian a than hun lain natna hrikin lakah a veng dawn ani. - Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. - A chi thlak hma in a chi chu en fiah hmasak tur ani. - A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		- Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . - Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. - Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	Black spot disease		- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn



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			awm thin a , hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	Nursery stage	Poly house	✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✚ Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytophthora blight	✚ A chi ven that nan thiram 3g/kg seed emaw Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed hi a tha hle ani ✚ Hneh taka 1% Bordeaux chawhpawlh emaw 2 g captan emaw 3 copper oxychloride a tui liter 1 hi 10-15 DAS a pek hi a tha hle ani.
French bean	Sowing stage		✚ Tui pek a hnihnah hringa khuh tur ani a. than a that theih nan tui pek hma in lei rin pan hmasak tur ani. ✚ A than duna theih nan leh hnim to loh na turin a kung bulah lei vur chhoh zel tur ani.
Carrot and radish	Sowing stage		✚ A than a that theih nan nikhat danah tui pek thin tur ani. ✚ Tui pek hnuah thlai bul vawn hnawn na tur siam tur ani. ✚ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum a rawn awm thina, hei hi natna tlanglawn ber ani. ✚ Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.

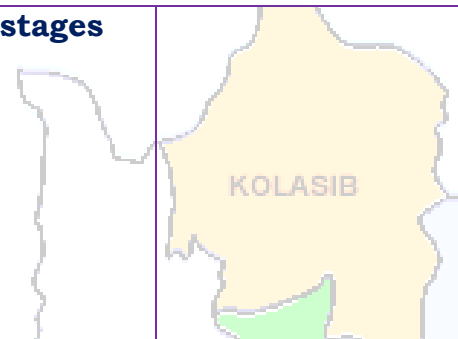
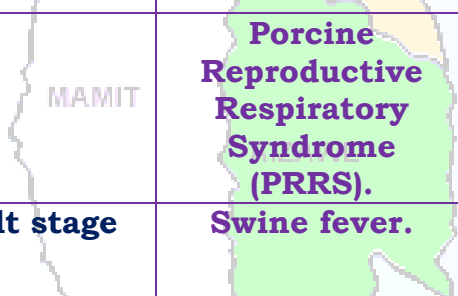
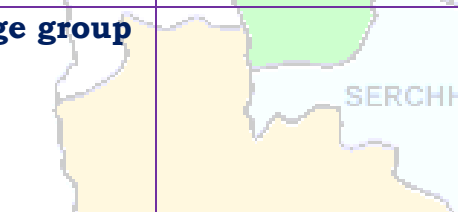
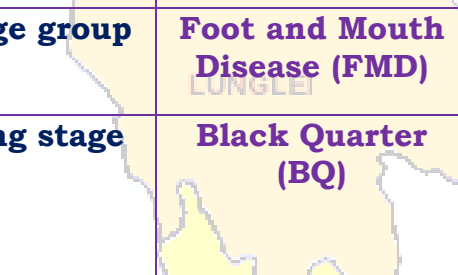
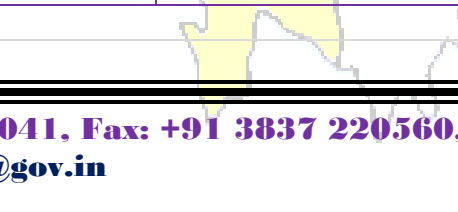


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian omega-3 hi atam em a vangin an chakna muangchanga a in siam chhoh zel theih nan a tha hle ani.
			Porcine Reproductive Respiratory Syndrome (PRRS). 1. Vawknote emaw vawk lak hran.
	Adult stage		Swine fever. 2. SF vaccines hi thla 2 hnua pek tur ani a, chumi hnuah chuan kumtin thlaruk danah pek chhonzawm tur ani.
Cattle	All age group		Hun rei tak khua a ro avanga hnim hnah hring peh tur a awm loh laia bawngin an chaw ei in buk tawk tur leh an taksa tana mamawh tur atan buh kung urea molasses hmanga sawngbawl pek tur ani.
	All age group		Foot and Mouth Disease (FMD) Kar 16 hnuah FMD vaccine pek a, chuan thla tin thla 6 chhung chhonzawm tur ani.
	Young stage		Black Quarter (BQ) - Black Quarter Vaccine (BQV). - Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. - Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	Litter management		- Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. - An hriselna atan enkawltha tha tawk tak pek hian natna an kai mai theih tur lak atang a venna tha ber ani.



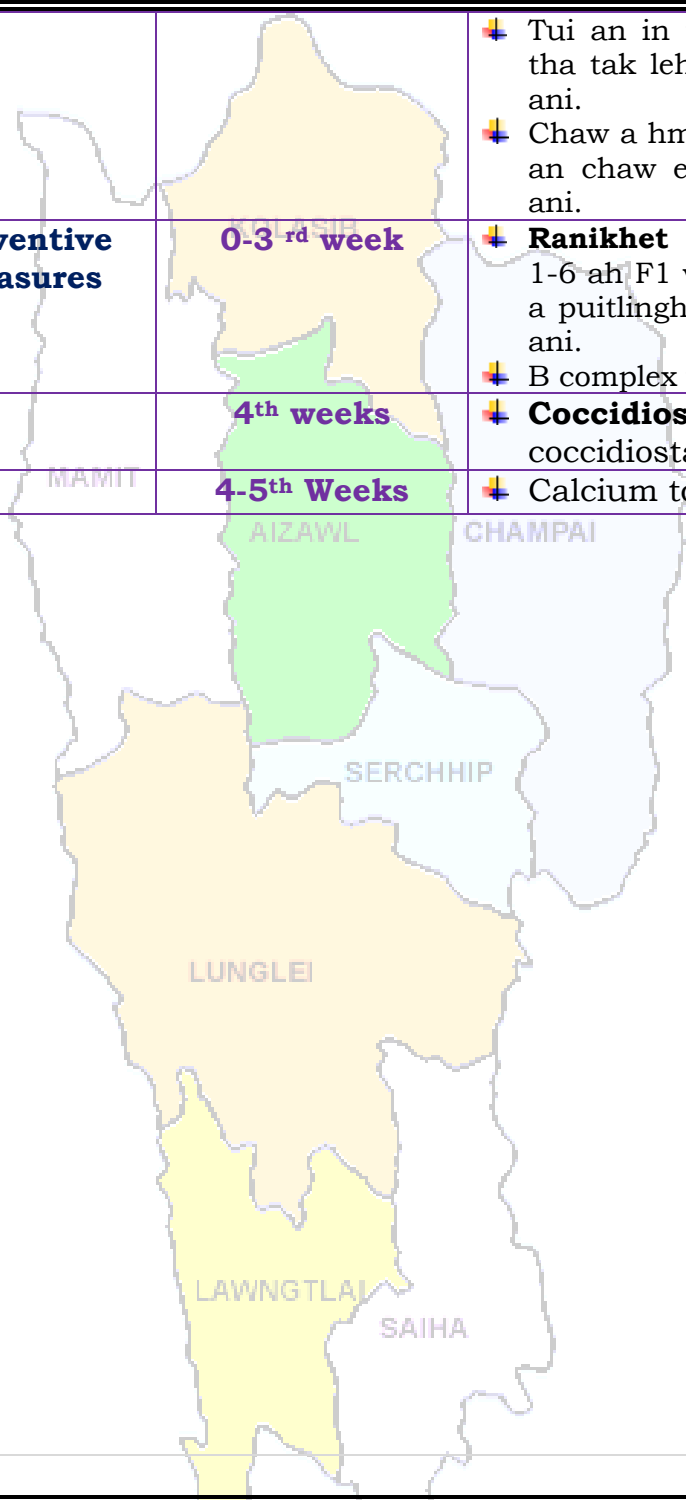
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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianglim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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



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District: Kolasib

Period: 08 February – 12 February, 2017

Bulletin No: - 673/2016/ Bulletin/English

Date of issue: 07th February, 2017

Parameters	08.02.2017	09.02.2017	10.02.2017	11.02.2017	12.02.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	29	29	29	29
Min Temp (°C)	11	11	11	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	89	99	98	98	93
Min RH (%)	28	21	19	16	19
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	S-E	S-E	S-E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):21-25°C
Minimum Tem. (°C):14-15°C
Maximum RH (%):89-98%
Minimum RH (%):39-48%
Wind Direction: Easterly
Cloud cover: Mainly clear
Wind speed: 3 km/hr

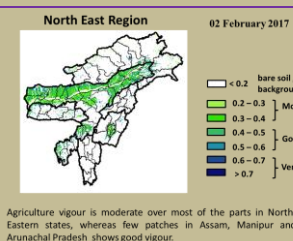
Rainfall: 00.0 mm

Weather forecast valid from 08th February, 2017 To 12th February, 2017.

There is no chance of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 28-29°C and 11-12°C. Maximum relative humidity is expected in the range of 89-99% and minimum may from 16-28%. Wind direction would be southeasterly to easterly with the wind speed of 4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young fruit plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Irrigation of plants at alternate day's interval, 6 weeks before harvesting improves fruit retention and fruit development, and reduces fruit cracking and improves the fruit quality.
BANANA			
STAR FRUIT			
PLUM AND PEACH			
		Gummosis, citrus canker, citrus greening and Dieback	Due to low temperature and humidity disease appearance will more. Use Bordeaux past in tree trunk, twigs and branches protect healthy plant from soil borne disease.
		Fruit fly	In large gardens apply carbaryl 0.2 per cent or malathion 0.15 per cent suspension containing sugar or jeggery at 10 g/l at fortnightly intervals at flowering and fruit initiation.
PLANTATION CROP			
COFFEE	All stages		Nursery stage - Pre-sowing seed treatment with <i>Azospirillum</i> and <i>Phosphobacterium</i> can be done - Seeds are sown in December - January in the bed 1.5 - 2.5 cm apart with the flat side down wards in regular rows. - Then they are covered with a thin layer of fine soil and a layer of paddy straw. - Water the beds daily and protect from direct sunlight by an over head pandal. - Seeds germinate in about 45 days after which they are transplanted to a



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		KOLASIB	secondary nursery beds for raising ball or Bag nursery. Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer MAMIT AIZAWL SERCHHIP	- Carry out timely and thorough harvest. - Avoid gleanings as far as possible. - Pick up and destroy the gleanings. - Meticulously remove the leftover berries. - Remove offseason berries to save main crop. - Avoid excessive shade. - Prune plants properly to facilitate better ventilation and illumination. - Spray Quinalphos 25 EC @ 340 ml/200 lit or lamda cyhalothrin 5 EC 120 – 160 ml / 200 lit. - While processing at the estate level dry coffee berries to the prescribed moisture level: Arabica / robusta parchment 10 %, Arabica cherry 10.5 % and robusta cherry 11.0 %.
		Coffee Rust LUNGLEI	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.

CEREALS AND PULSE CROPS

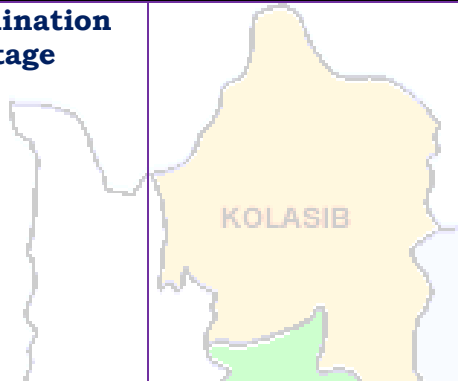
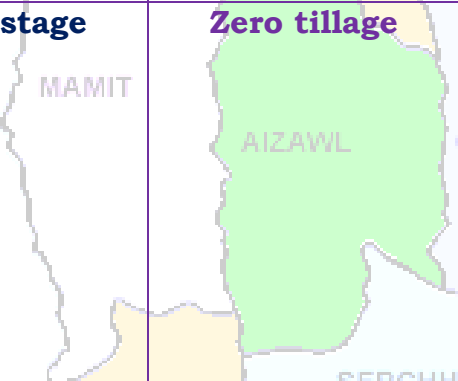
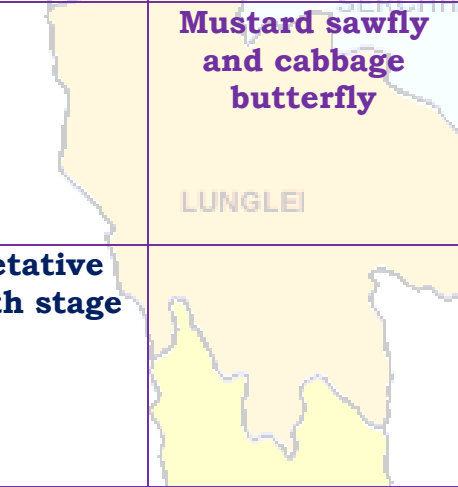
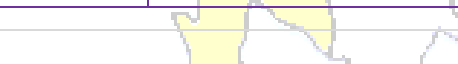


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Rabi Maize	Germination stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Mulching should be done with dry grasses in farrow conserve soil moisture during winter. ✚ If flowering and pod formation going to occur spray 2% urea solution for better growth and development.
			✚ Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in mustard and toria. ✚ Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch.
VEGETABLE CROP			
Tomato	Bacterial Blight disease		✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
Early Cole crop	Black spot disease		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Prevailing weather may conducive for black spot disease in Cole Crops. - To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
			- Due to high temperature during day time and high humidity results appearance of mustard sawfly and cabbage butterfly in cole crops. - Apply contact insecticide like Cyper25-Cypermethrin 25% EC or Deltamethrin 25% EC @ 2ml per litre of water.
Onion and capsicum	Transplanting stage		- Prepare the land for onion and capsicum transplant without any further delay. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery which will give effective control of weed.
			- 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.
French bean	Sowing stage		Provide light irrigation with mulching. Before irrigation weeding and thinning



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			must be done for proper growth of the crop. ✚ Earthing up soil for better growth and weed free. ✚ Apply 2% urea solution which gives good growth and development.
Carrot and radish	Sowing stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Mulching must be done after irrigation. ✚ Prevailing weather may conducive for black spot disease in Cole Crops. ✚ To manage the attack in leafy vegetables and Cole crops, Mancozeb @ 2gm per liter of water may be sprayed.
ANIMAL HUSBENDARY			
Pig	All stages		✚ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✚ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✚ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval



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Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂



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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratantplantpatho@gmail.com
Dr. L. H. Puui	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr. Lungmuana	:	Scientist (Soil Fertility)	lmsingson@gmail.com
Dr. M. Thoithoi Devi	:	Scientist (Agronomy)	thoiagri@gmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Mr. Vanthawmliana	:	Senior Research Fellow (Mizo language Translator)	Tom_tom79@yahoo.in

Collaborating Department:

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