



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: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	20	20	20	20
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	94	92	96	96	96
Min RH (%)	35	27	37	36	42
Wind Speed (Kmph)	5	5	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

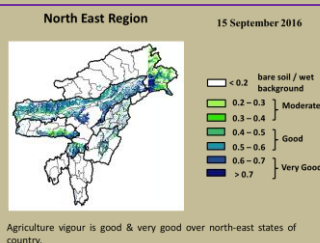
Maximum Tem. (°C):20-23°C
Minimum Tem. (°C): 6-9°C
Maximum RH (%):76-82%
Minimum RH (%):30-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 20-22°C a ni ang a. A vawh lai ber in 10-11°C ni tura beisei a ni. RH san lai berin 92-96% leh a hniam lai berin 27-42% ni tur a rin niin. Thli hi darkar khatah 4-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 02.1 mm

Weekly cumulative rainfall: 00.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPALAI SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Tomato	A chi kui hun	A chi kuitiahna hmun tur siam dan	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.
		Nursery natna (Damping off)	A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian hnimhnah lian lampang chi a



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		Turmeric shoot borer (Aieng kung ei chhetu ranning)	veng a ni. ✚ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	KOLASIB	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		MAMIT	
		Sazu tihchhiat	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhnah leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		AIZAWL	
		CHAMPAI	
		SERCHHIP	
		LUNGLEI	
		Sava tihchhiat	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni. ✚ Lekhachhaih hi sava hlauh atan hman thin a ni bawk.
		LAWNGTLAI	
		SAIHA	



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		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Bekang	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut thin tur.
Green gram, black gram leh French bean (nipui buh seng zawh hunah)	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut rih vur thin tur. - French bean tan bik athlawp tu atan mau hman tur. - A rah athat lehzuall nan French bean tan bik chuan mumal takin a in henin leitha pek tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		Atui awpna in ah eng darkar 12-



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		KOLASIB	14 tal a in chhi tur a ni. • An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. • Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. • Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	✚ Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. ✚ B complex leh antibodies
		4 th weeks	✚ Coccidiosis- Amprolium emaw coccidiostat pek tur.
		4-5 th weeks	✚ Calcium tonic leh B₁₂
	Bacillary White Diarrhoea	Eng kum tan pawh	✚ Ar thi zawng zawng hal ral vak tur ✚ Furaldone 0.5g chu tui litre khat ah chawhpawlh a hman tur.



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District: Lunglei

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	21	21	21	21
Min Temp (°C)	10	10	10	10	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	35	31	31	34	39
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 14-21°C
Minimum Tem. (°C): 4-6°C
Maximum RH (%):71-84%
Minimum RH (%):29-43%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 2km/hr

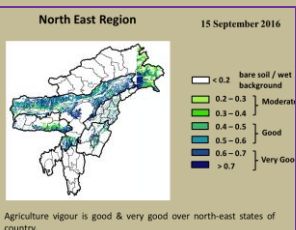
Rainfall: 00.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 21-22°C and 9-10°C. Maximum relative humidity is expected in the range of 99% and minimum may from 31-39%. Wind direction would be 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
	MAMIT	Coffee Berry borer AIZAWL	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

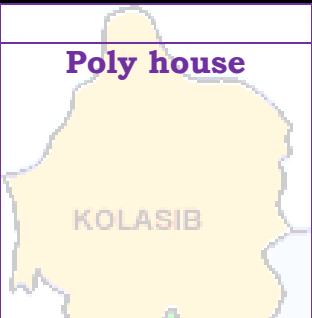
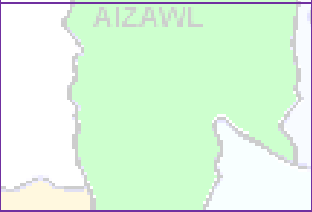
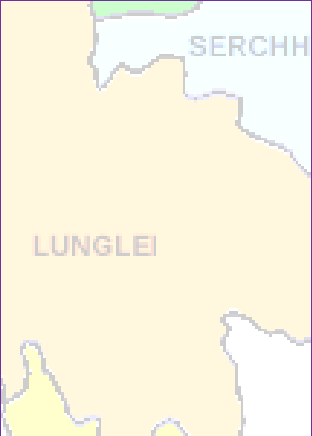


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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District: Lunglei

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	21	21	21	21
Min Temp (°C)	10	10	10	10	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	35	31	31	34	39
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

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

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

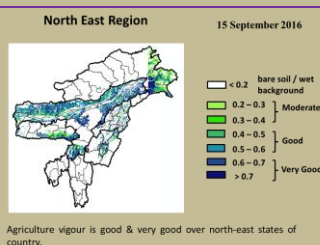
Maximum Tem. (°C): 14-21°C
Minimum Tem. (°C): 4-6°C
Maximum RH (%):71-84%
Minimum RH (%):29-43%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 2km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 21-22°C a ni ang a. A vawh lai ber in 9-10°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 31-39% 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.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPA SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Baibing (Local vegetable)	A seng hun	MAMIT AIZAWL CHAMPAL	- A kung bulah hnim a to tur a ni lo. - A rah hmin ho chu seng vek tur. - A kum leh atan a chi dah tur.
Tomato	Par a chhuah hma	SERCHHIP LUNGLEI	- Leichhung a boruak a luh that a zung alo that zawk theihnan hnim to pawhfai leh lei chawhphut thin tur. - Phun anih hnu ni 30-45 hnu ah lei chawhphut a rihvur tur. - A kung dawm tu tur in pal ban phun zel ni se, chu chuan a rah that leh a thar tam kawngah apui in a tangkai hle a ni. - Thlai bul tih hnawm nan a polythene dum hman hian hnim to tur a veng a, thlai a thang chak a, a par hma tir a, a thar tam phah tir bawk a ni.
		Bacterial Wilt LAWNGTLAI SAIHA	- Natna vei te chu a zung chawp a pawh phawi a hal ral vek tur. - Thlai chin dan thlakkual (crop rotation) hmangin he natna hi a tih ziaawm theih a ni. - Phun atanga thla khat hnu ah Bordeaux mixture (1:1:100) hmanga lei tih hnawn hi he natna enkawl nan hian a tangkai in a sawt em em a ni.
Early cole crop	Par a chhuah hma		Leichhung a boruak a luh that a zung alo that zawk theihnan hnim to pawhfai leh lei chawhphut thin



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		KOLASIB	tur. - Bawr tha tak thar chhuah theih nan phunsawn a nih hnu atanga kar 4-5 thlang a bul chawhphut a lei tih thawl tur a ni. - Kar khat dan zel ah tui pek tur a ni. - A bawr (head) a keh chhiatloh nan a puitlin hun lai velin tui pek tamloh hram tur.
		N tlakchhamna	- He tlakchhamna hi neem cake @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 2 per cent urea hman tur.
		P tlakchhamna	- He tlakchhamna hi phosphorus based fertilizer @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 4 per cent DAP hman tur.
Capsicum	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
		LAWNGTLAI	- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.



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Purunsen	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
	MAMIT	KOLASIB AIZAWL CHAMPAI SERCHHIP	- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.
French Bean	A chi theh hun	LUNGLEI	- A chi danglam leh hrisel, chang tha leh thianghlim chiah theh tur. - Thing ngul hman chi tan a chi theh inkar tur chu 60cm x 60 cm a ni. - A chi theh hma in a chi chu hectare khat ah Rhizobium vermicompost 10t hman a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	MAMIT AIZAWL CHAMPAI	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		Sazu tihchhiat SERCHHIP LUNGLEI	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhnah leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		Sava tihchhiat LAWNGTLAI SAIHA	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni.



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			Lekhachhaih hi sava hlahu atan hman thin a ni bawk.
		Rice yellow stem borer KOLASIB	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS). MAMIT	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		- Atui awpna in ah eng darkar 12-14 tal a in chhi tur a ni. - An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. - Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. - Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a



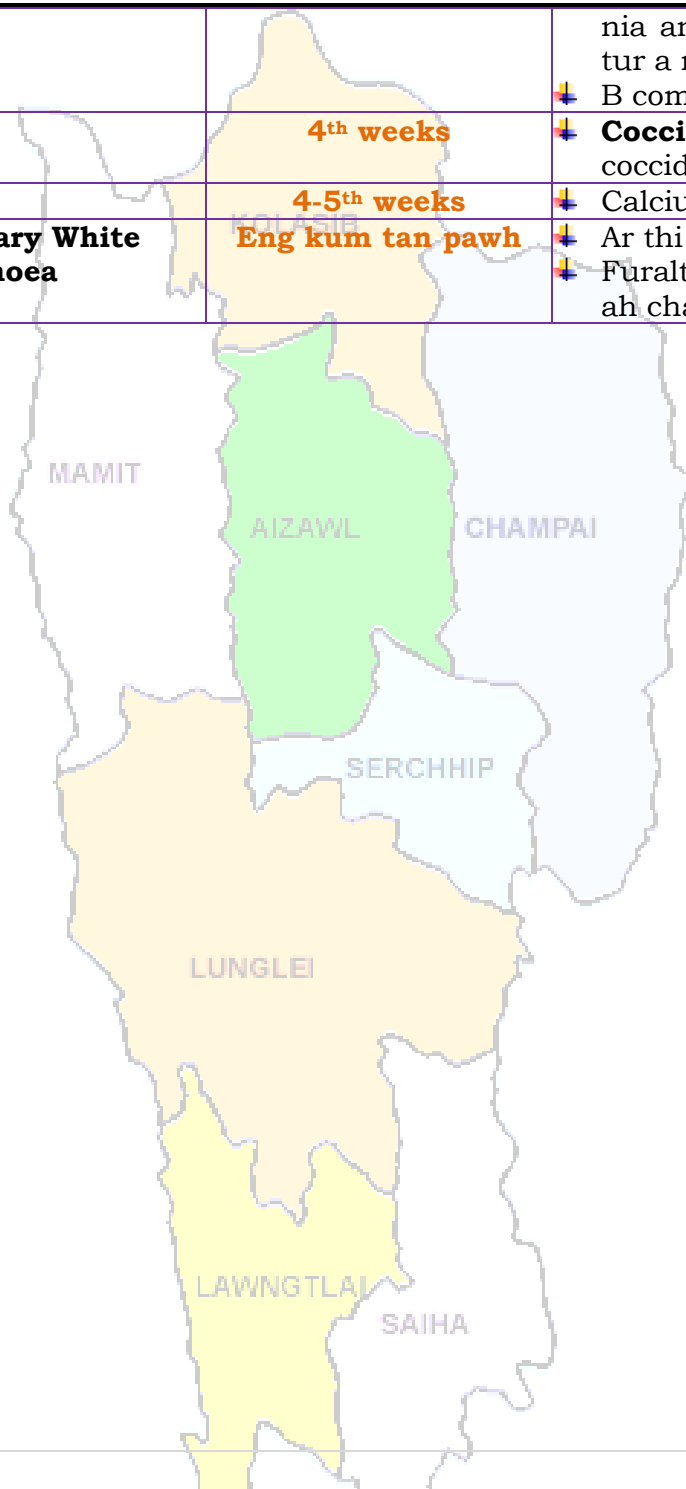
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			nia an puitlin hunah R ₂ B pek leh tur a ni.
		4 th weeks	B complex leh antibodies
		4-5 th weeks	Coccidiosis - Amprolium emaw coccidiostat pek tur.
	Bacillary White Diarrhoea	Eng kum tan pawh	Calcium tonic leh B ₁₂
			Ar thi zawng zawng hal ral vak tur
			Furaltadone 0.5g chu tui litre khat ah chawhpawlh a hman tur.





GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	24
Min Temp (°C)	10	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	98	93	100	97
Min RH (%)	41	36	37	37	40
Wind Speed (Kmph)	4	4	4	3	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):20-24°C
Minimum Tem. (°C):09-11°C
Maximum RH (%):72-81%
Minimum RH (%):31-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 2 km/hr

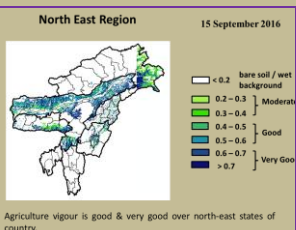
Rainfall: 02.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 24-25°C and 9-10°C. Maximum relative humidity is expected in the range of 93-100% and minimum may from 36-41%. Wind direction would be easterly with the wind speed of 3-4 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
	MAMIT	Coffee Berry borer AIZAWL	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

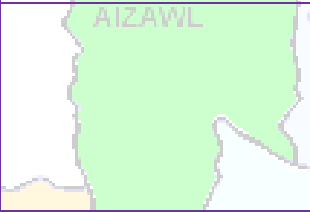


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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District: Mamit

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	24
Min Temp (°C)	10	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	98	93	100	97
Min RH (%)	41	36	37	37	40
Wind Speed (Kmph)	4	4	4	3	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

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

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

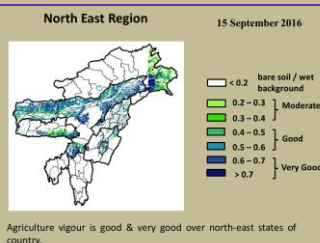
Maximum Tem. (°C):20-24°C
Minimum Tem. (°C):09-11°C
Maximum RH (%):72-81%
Minimum RH (%):31-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 2 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-25°C a ni ang a. A vawh lai ber in 9-10°C ni tura beisei a ni. RH san lai berin 93-100% leh a hniam lai berin 36-41% 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.

Rainfall: 02.0 mm

Weekly cumulative rainfall: 00.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphonmethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPAL SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawanna nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Tomato	A chi kui hun	A chi kuitiahna hmun tur siam dan	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.
		Nursery natna (Damping off)	A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian hnimhnah lian lampang chi a



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



		Turmeric shoot borer (Aieng kung ei chhetu ranning)	veng a ni. ✚ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	KOLASIB	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		MAMIT	
		Sazu tihchhiat	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhnah leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		AIZAWL	
		CHAMPAI	
		SERCHHIP	
		LUNGLEI	
		Sava tihchhiat	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni. ✚ Lekhachhaih hi sava hlauh atan hman thin a ni bawk.
		LAWNGTLAI	
		SAIHA	



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		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah ranning hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Bekang	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut thin tur.
Green gram, black gram leh French bean (nipui buh seng zawh hunah)	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut rih vur thin tur. - French bean tan bik athlawp tu atan mau hman tur. - A rah athat lehzuall nan French bean tan bik chuan mumal takin a in henin leitha pek tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		Atui awpna in ah eng darkar 12-



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		KOLASIB	14 tal a in chhi tur a ni. • An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. • Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. • Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	✚ Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. ✚ B complex leh antibodies
		4 th weeks	✚ Coccidiosis- Amprolium emaw coccidiostat pek tur.
		4-5 th weeks	✚ Calcium tonic leh B₁₂
	Bacillary White Diarrhoea	Eng kum tan pawh	✚ Ar thi zawng zawng hal ral vak tur ✚ Furaldone 0.5g chu tui litre khat ah chawhpawlh a hman tur.



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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Saiha

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	23	22	22	22	22
Min Temp (°C)	10	9	9	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	94	97	97	97
Min RH (%)	35	24	35	33	40
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 12-16°C
Minimum Tem. (°C): 3-7°C
Maximum RH (%):72-85%
Minimum RH (%):34-52%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 4km/hr

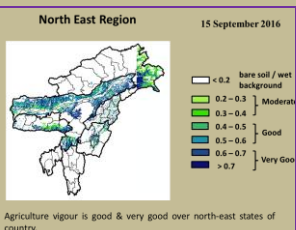
Rainfall: 00.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 22-23°C and 9-10°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 24-40%. Wind direction would be 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

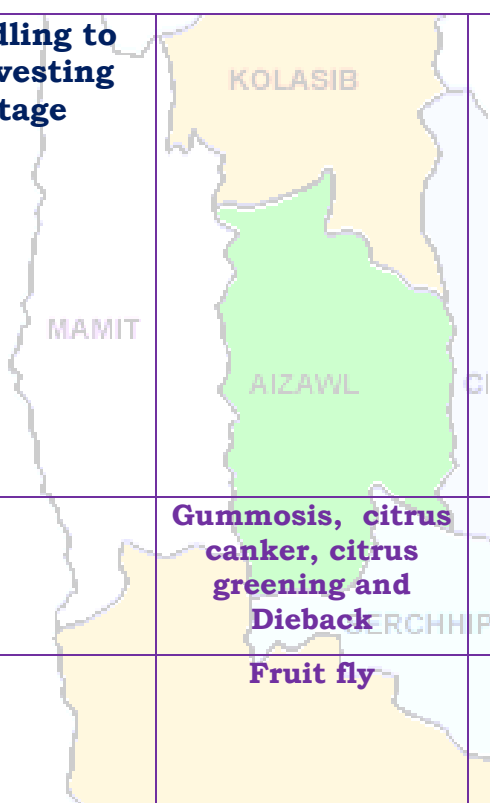


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(Prepared based on District wise Weather Forecast received from IMD, Guwahati)



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	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

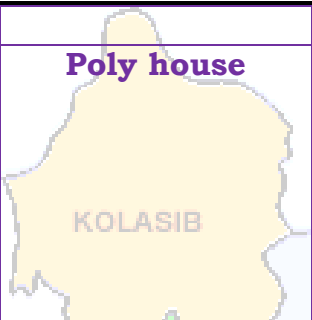
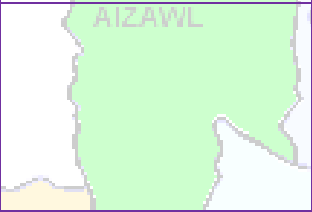
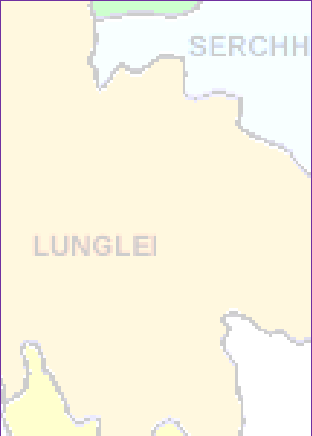


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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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: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (oC)	23	22	22	22	22
Min Temp (oC)	10	9	9	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	94	97	97	97
Min RH (%)	35	24	35	33	40
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

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

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

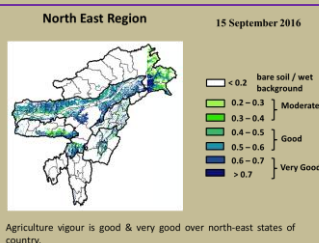
Maximum Tem. (oC): 12-16oC
Minimum Tem. (oC): 3-7oC
Maximum RH (%):72-85%
Minimum RH (%):34-52%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind Speed: 4km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 22-23oC a ni ang a. A vawh lai ber in 9-10oC ni tura beisei a ni. RH san lai berin 94-97% leh a hniam lai berin 24-40% 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.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

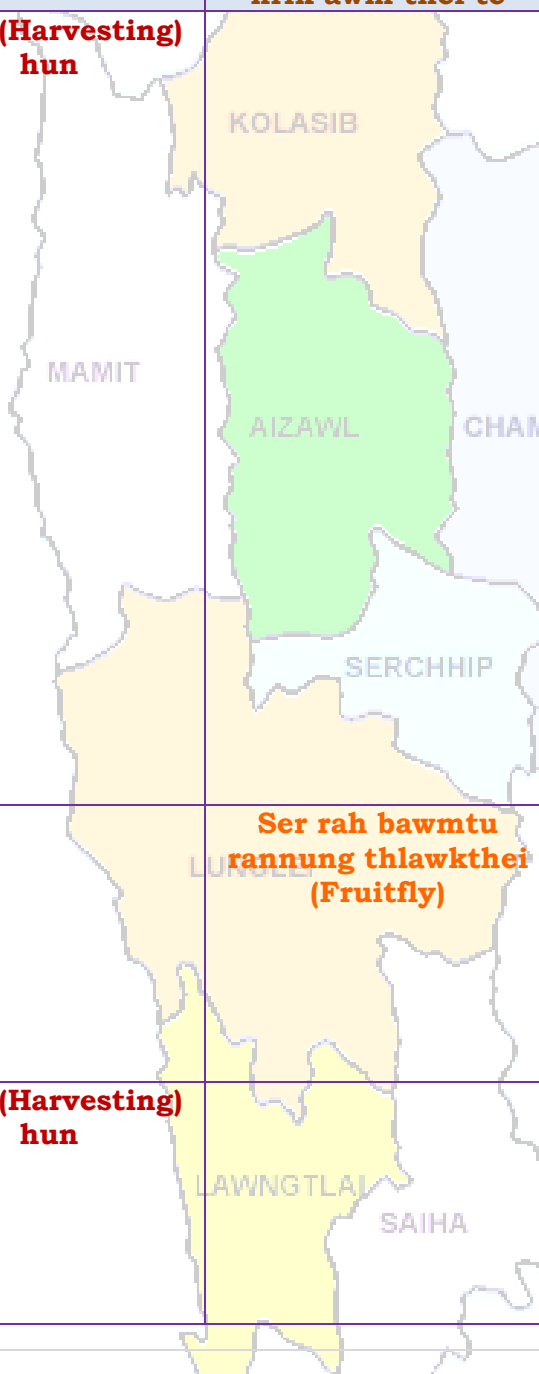


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Mizoram Centre, Kolasib- 796081, MIZORAM

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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPA SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Baibing (Local vegetable)	A seng hun	MAMIT AIZAWL CHAMPAL	- A kung bulah hnim a to tur a ni lo. - A rah hmin ho chu seng vek tur. - A kum leh atan a chi dah tur.
Tomato	Par a chhuah hma	SERCHHIP LUNGLEI	- Leichhung a boruak a luh that a zung alo that zawk theihnann hnim to pawhfai leh lei chawhphut thin tur. - Phun anih hnu ni 30-45 hnu ah lei chawhphut a rihvur tur. - A kung dawm tu tur in pal ban phun zel ni se, chu chuan a rah that leh a thar tam kawngah apui in a tangkai hle a ni. - Thlai bul tih hnawm nan a polythene dum hman hian hnim to tur a veng a, thlai a thang chak a, a par hma tir a, a thar tam phah tir bawk a ni.
		Bacterial Wilt LAWNGTLAI SAIHA	- Natna vei te chu a zung chawp a pawh phawi a hal ral vek tur. - Thlai chin dan thlakkual (crop rotation) hmangin he natna hi a tih ziaawm theih a ni. - Phun atanga thla khat hnu ah Bordeaux mixture (1:1:100) hmanga lei tih hnawn hi he natna enkawl nan hian a tangkai in a sawt em em a ni.
Early cole crop	Par a chhuah hma		Leichhung a boruak a luh that a zung alo that zawk theihnann hnim to pawhfai leh lei chawhphut thin



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		KOLASIB	tur. - Bawr tha tak thar chhuah theih nan phunsawn a nih hnu atanga kar 4-5 thlang a bul chawhphut a lei tih thawl tur a ni. - Kar khat dan zel ah tui pek tur a ni. - A bawr (head) a keh chhiatloh nan a puitlin hun lai velin tui pek tamloh hram tur.
		N tlakchhamna	- He tlakchhamna hi neem cake @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 2 per cent urea hman tur.
		P tlakchhamna	- He tlakchhamna hi phosphorus based fertilizer @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 4 per cent DAP hman tur.
Capsicum	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
			- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.



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Purunsen	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
	MAMIT	KOLASIB	- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.
French Bean	A chi theh hun	CHAMPAI	- A chi danglam leh hrisel, chang tha leh thianghlim chiah theh tur. - Thing ngul hmanh chi tan a chi theh inkar tur chu 60cm x 60 cm a ni. - A chi theh hma in a chi chu hectare khat ah Rhizobium vermicompost 10t hmanh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	SERCHHIP	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	MAMIT AIZAWL CHAMPAI	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		Sazu tihchhiat SERCHHIP LUNGLEI	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhnah leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		Sava tihchhiat LAWNGTLAI SAIHA	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni.



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			Lekhachhaih hi sava hlahuh atan hman thin a ni bawk.
		Rice yellow stem borer 	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vawk	Kumtluanin	Vawk natna 	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS). 	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever. 	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD) 	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ) 	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		- Atui awpna in ah eng darkar 12-14 tal a in chhi tur a ni. - An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. - Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. - Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3rd week 	Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a



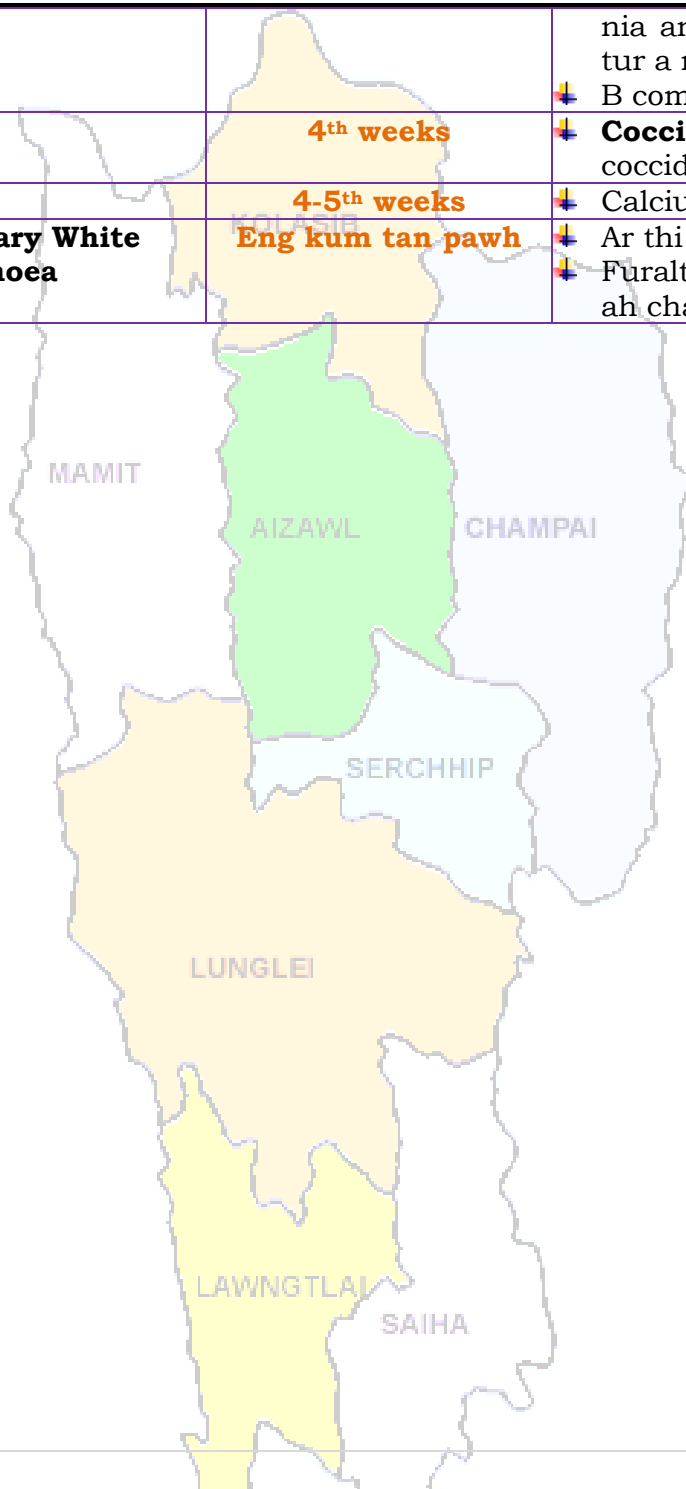
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			nia an puitlin hunah R ₂ B pek leh tur a ni.
		4 th weeks	B complex leh antibodies
		4-5 th weeks	Coccidiosis - Amprolium emaw coccidiostat pek tur.
	Bacillary White Diarrhoea	Eng kum tan pawh	Calcium tonic leh B ₁₂
			Ar thi zawng zawng hal ral vak tur
			Furaltadone 0.5g chu tui litre khat ah chawhpawlh a hman tur.





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District: Serchhip

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	21	21	21	21
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	99	100	99
Min RH (%)	35	31	30	32	37
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 19-21°C
Minimum Tem. (°C): 7-9°C
Maximum RH (%): 73-86%
Minimum RH (%): 27-42%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 2 km/hr

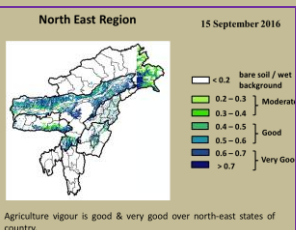
Rainfall: 02.4 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 21-22°C and 10-11°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 30-37%. Wind direction would be 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
	MAMIT	Coffee Berry borer AIZAWL	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

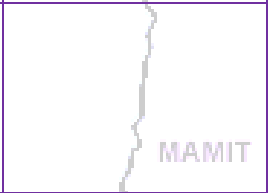


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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Serchhip

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	21	21	21	21
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	99	100	99
Min RH (%)	35	31	30	32	37
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

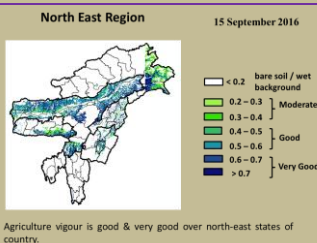
Maximum Tem. (°C): 19-21°C
Minimum Tem. (°C): 7-9°C
Maximum RH (%): 73-86%
Minimum RH (%): 27-42%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 2 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 21-22°C a ni ang a. A vawh lai berin 10-11°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 30-37% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 02.4 mm

Weekly cumulative rainfall: 00.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions

Thlai/ ran

Spat zawng

Hmalakna tur/

Agricultural/Horticultural/ animal

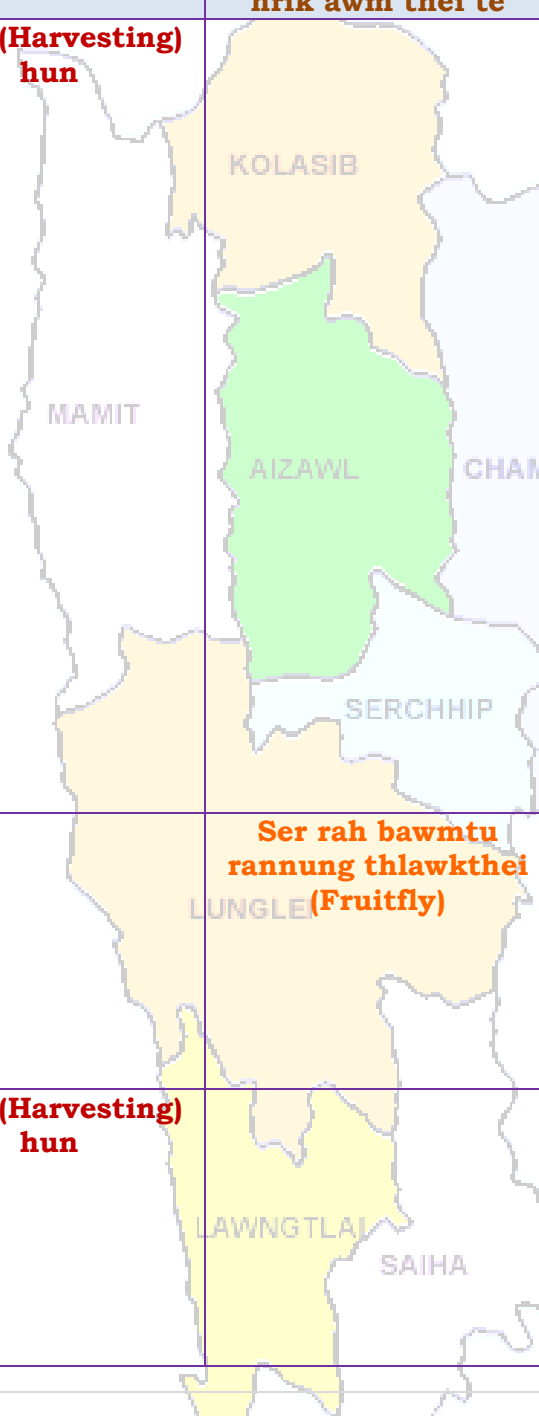


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/sangha		rannung leh natna hrik awm thei te	husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggery 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August – December leh March- May ah te



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			an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	- A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggery 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome weevil)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu rannung tui 50 per cent a

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			keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPAI SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Tomato	A chi kui hun	A chi kuitiahna hmun tur siam dan	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.
		Nursery natna (Damping off)	A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian hnimhnah lian lampang chi a



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		Turmeric shoot borer (Aieng kung ei chhetu ranning)	veng a ni. ✚ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	KOLASIB	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		MAMIT	
		Sazu tihchhiat	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhna leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		AIZAWL	
		CHAMPAI	
		SERCHHIP	
		LUNGLEI	
		Sava tihchhiat	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni. ✚ Lekhachhaih hi sava hlauh atan hman thin a ni bawk.
		LAWNGTLAI	
		SAIHA	



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		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Bekang	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut thin tur.
Green gram, black gram leh French bean (nipui buh seng zawh hunah)	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut rih vur thin tur. - French bean tan bik athlawp tu atan mau hman tur. - A rah athat lehzuall nan French bean tan bik chuan mumal takin a in henin leitha pek tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		Atui awpna in ah eng darkar 12-



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		KOLASIB	14 tal a in chhi tur a ni. • An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. • Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. • Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	✚ Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. ✚ B complex leh antibodies
		4 th weeks	✚ Coccidiosis- Amprolium emaw coccidiostat pek tur.
		4-5 th weeks	✚ Calcium tonic leh B₁₂
	Bacillary White Diarrhoea	Eng kum tan pawh	✚ Ar thi zawng zawng hal ral vak tur ✚ Furaldone 0.5g chu tui litre khat ah chawhpawlh a hman tur.



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District: Aizawl

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	24
Min Temp (°C)	8	7	7	8	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	38	37	37	35	37
Wind Speed (Kmph)	3	4	4	3	3
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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): 16-21°C
Minimum Tem. (°C): 6-7°C
Maximum RH (%):74-82%
Minimum RH (%):32-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 3 km/hr

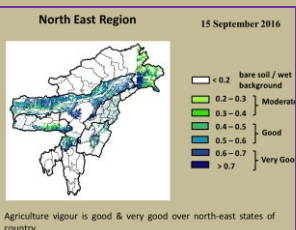
Rainfall: 00.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 24-25°C and 7-8°C. Maximum relative humidity is expected in the range of 100% and minimum may from 35-38%. Wind direction would be easterly with the wind speed of 3-4 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

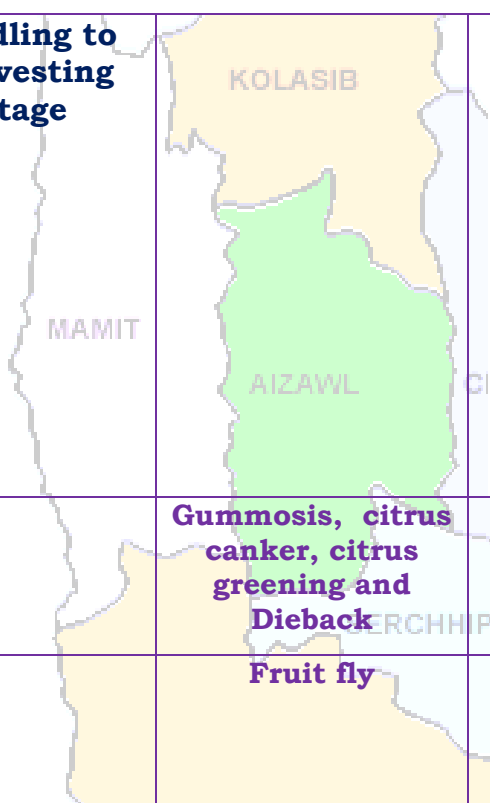


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Mizoram Centre, Kolasib- 796081, MIZORAM

(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	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

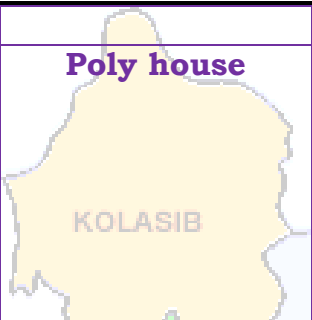
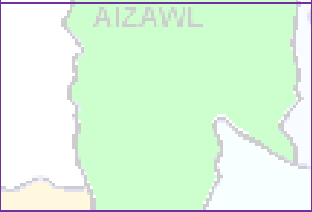
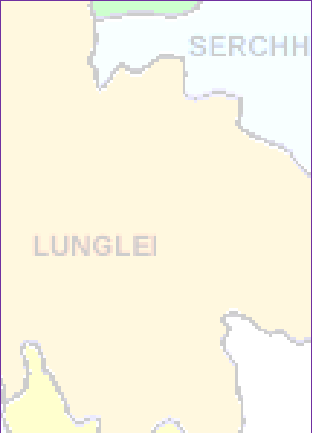


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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District: Aizawl

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	24
Min Temp (°C)	8	7	7	8	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	38	37	37	35	37
Wind Speed (Kmph)	3	4	4	3	3
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

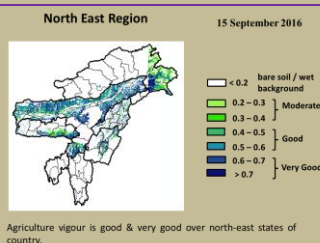
Maximum Tem. (°C): 16-21°C
Minimum Tem. (°C): 6-7°C
Maximum RH (%):74-82%
Minimum RH (%):32-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-25°C a ni ang a. A vawh lai ber in 7-8°C ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 35-38% 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.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rahrawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPA SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Tomato	A chi kui hun	A chi kuitiahna hmun tur siam dan	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.
		Nursery natna (Damping off)	A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian hnimhnah lian lampang chi a



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		Turmeric shoot borer (Aieng kung ei chhetu ranning)	veng a ni. ✦ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	KOLASIB	✦ A rawng chu a hring atangin gold rawngah a inthlak ang. ✦ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✦ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		MAMIT	
		Sazu tihchhiat	✦ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✦ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhna leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✦ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		AIZAWL	
		CHAMPAI	
		SERCHHIP	
		LUNGLEI	
		Sava tihchhiat	✦ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✦ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni. ✦ Lekhachhaih hi sava hlauh atan hman thin a ni bawk.
		LAWNGTLAI	
		SAIHA	



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		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Bekang	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut thin tur.
Green gram, black gram leh French bean (nipui buh seng zawh hunah)	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut rih vur thin tur. - French bean tan bik athlawp tu atan mau hman tur. - A rah athat lehzuall nan French bean tan bik chuan mumal takin a in henin leitha pek tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		Atui awpna in ah eng darkar 12-



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Mizoram Centre, Kolasib- 796081, MIZORAM

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		KOLASIB	14 tal a in chhi tur a ni. • An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. • Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. • Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	✚ Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. ✚ B complex leh antibodies
		4 th weeks	✚ Coccidiosis- Amprolium emaw coccidiostat pek tur.
		4-5 th weeks	✚ Calcium tonic leh B₁₂
	Bacillary White Diarrhoea	Eng kum tan pawh	✚ Ar thi zawng zawng hal ral vak tur ✚ Furaldone 0.5g chu tui litre khat ah chawhpawlh a hman tur.



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



District: Champhai

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	23
Min Temp (°C)	10	10	9	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	40	39	38	36	39
Wind Speed (Kmph)	3	3	4	4	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 14-18°C
Minimum Tem. (°C): 2-5°C
Maximum RH (%):71-82%
Minimum RH (%):28-44%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 2km/hr

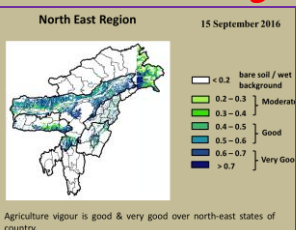
Rainfall: 00.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 23-25°C and 9-10°C. Maximum relative humidity is expected in the range of 99% and minimum may from 36-40%. Wind direction would be southerly to southeasterly to southerly and southerly with the wind speed of 3-4 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
	MAMIT	AIZAWL Coffee Berry borer	- 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 %.
		SERCHHIP Coffee Rust	- 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).
		LUNGLEI	
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

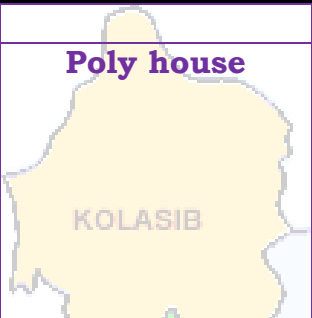
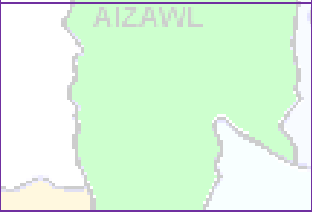
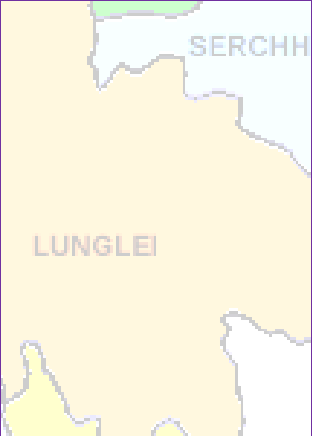


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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District: Champhai

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	25	24	24	23
Min Temp (°C)	10	10	9	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	40	39	38	36	39
Wind Speed (Kmph)	3	3	4	4	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

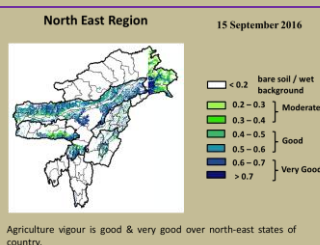
Maximum Tem. (°C): 14-18°C
Minimum Tem. (°C): 2-5°C
Maximum RH (%):71-82%
Minimum RH (%):28-44%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 2km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-25°C a ni ang a. A vawh lai ber in 9-10°C ni tura beisei a ni. RH san lai berin 99% leh a hniam lai berin 36-40% 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.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jeggerly 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPA SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Baibing (Local vegetable)	A seng hun	MAMIT AIZAWL CHAMPAL	- A kung bulah hnim a to tur a ni lo. - A rah hmin ho chu seng vek tur. - A kum leh atan a chi dah tur.
Tomato	Par a chhuah hma	SERCHHIP LUNGLEI	- Leichhung a boruak a luh that a zung alo that zawk theihnan hnim to pawhfai leh lei chawhphut thin tur. - Phun anih hnu ni 30-45 hnu ah lei chawhphut a rihvur tur. - A kung dawm tu tur in pal ban phun zel ni se, chu chuan a rah that leh a thar tam kawngah apui in a tangkai hle a ni. - Thlai bul tih hnawm nan a polythene dum hman hian hnim to tur a veng a, thlai a thang chak a, a par hma tir a, a thar tam phah tir bawk a ni.
		Bacterial Wilt LAWNGTLAI SAIHA	- Natna vei te chu a zung chawp a pawh phawi a hal ral vek tur. - Thlai chin dan thlakkual (crop rotation) hmangin he natna hi a tih ziaawm theih a ni. - Phun atanga thla khat hnu ah Bordeaux mixture (1:1:100) hmanga lei tih hnawn hi he natna enkawl nan hian a tangkai in a sawt em em a ni.
Early cole crop	Par a chhuah hma		Leichhung a boruak a luh that a zung alo that zawk theihnan hnim to pawhfai leh lei chawhphut thin



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		KOLASIB	tur. - Bawr tha tak thar chhuah theih nan phunsawn a nih hnu atanga kar 4-5 thlang a bul chawhphut a lei tih thawl tur a ni. - Kar khat dan zel ah tui pek tur a ni. - A bawr (head) a keh chhialloh nan a puitlin hun lai velin tui pek tamloh hram tur.
		N tlakchhamna	- He tlakchhamna hi neem cake @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 2 per cent urea hman tur.
		P tlakchhamna	- He tlakchhamna hi phosphorus based fertilizer @0.4kg/m² hmangin a enkawl dam theih a ni. - He natna hi a lo lan chuan 4 per cent DAP hman tur.
Capsicum	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
			- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.



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Purunsen	A chi kui hun	Poly house	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar
	MAMIT	KOLASIB	- A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni. - A chi theh atanga ni 10-15 hnu ah tui litre khat ah 1% Bordeaux mixture emaw 2 g captan emaw 3 copper oxychloride emaw siam a a kuina hmun phuh hnawn tur.
French Bean	A chi theh hun	CHAMPAI	- A chi danglam leh hrisel, chang tha leh thianghlim chiah theh tur. - Thing ngul hman chi tan a chi theh inkar tur chu 60cm x 60 cm a ni. - A chi theh hma in a chi chu hectare khat ah Rhizobium vermicompost 10t hman a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	SERCHHIP	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp)



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			@ 1-1.5kg a.i ha ⁻¹ te hian hnimhnah lian lampang chi a veng a ni.
		Turmeric shoot borer (Aieng kung ei chhetu rannung) KOLASIB	✚ Rannung hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	MAMIT AIZAWL CHAMPAI	✚ A rawng chu a hring atangin gold rawngah a inthlak ang. ✚ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✚ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		Sazu tihchhiat SERCHHIP LUNGLEI	✚ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✚ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhnah leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✚ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		Sava tihchhiat LAWNGTLAI SAIHA	✚ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✚ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni.



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			Lekhachhaih hi sava hlahuh atan hman thin a ni bawk.
		Rice yellow stem borer KOLASIB	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS). MAMIT	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		- Atui awpna in ah eng darkar 12-14 tal a in chhi tur a ni. - An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. - Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. - Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a



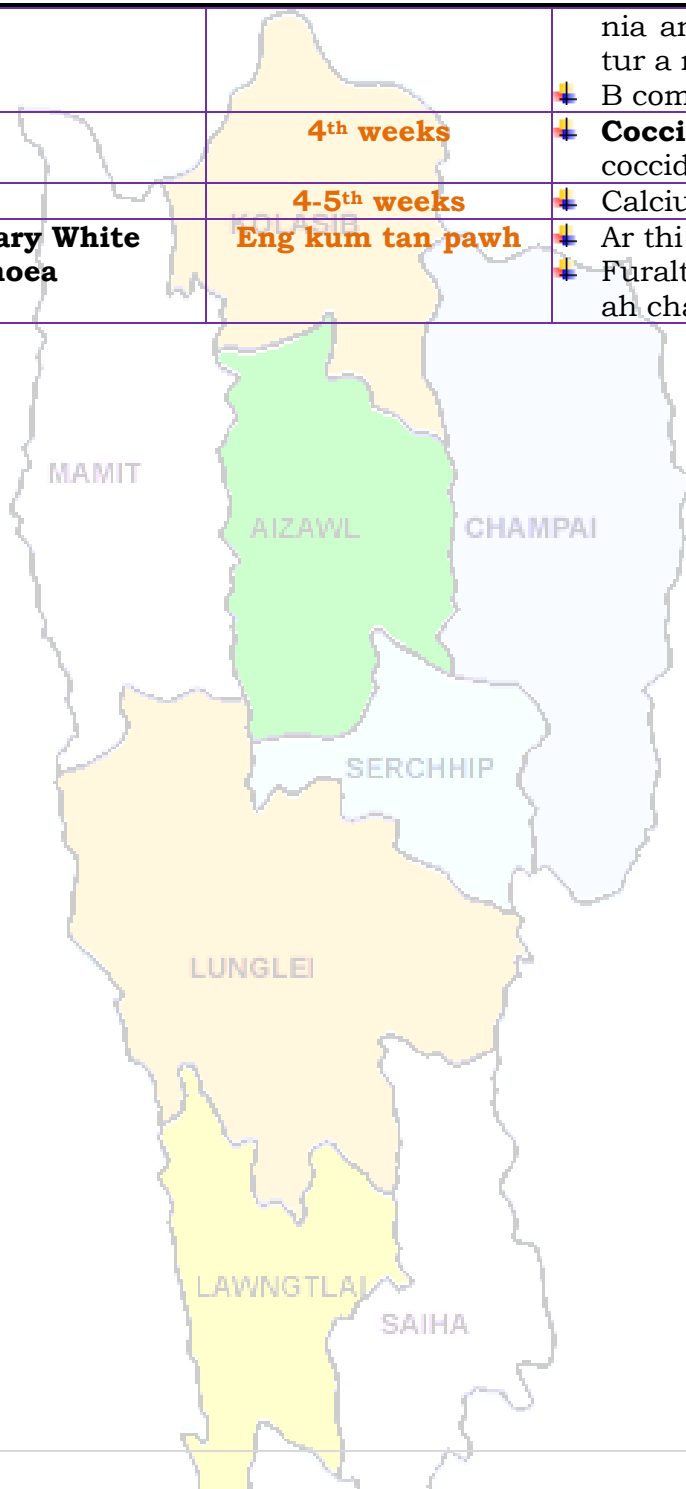
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			nia an puitlin hunah R ₂ B pek leh tur a ni.
		4 th weeks	B complex leh antibodies
		4-5 th weeks	Coccidiosis - Amprolium emaw coccidiostat pek tur.
	Bacillary White Diarrhoea	Eng kum tan pawh	Calcium tonic leh B ₁₂
			Ar thi zawng zawng hal ral vak tur
			Furaltadone 0.5g chu tui litre khat ah chawhpawlh a hman tur.





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District: Kolasib

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	24	23	23	23	22
Min Temp (°C)	10	10	10	10	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	95	95	95	97
Min RH (%)	37	37	37	35	37
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):19-23°C
Minimum Tem. (°C):07-12°C
Maximum RH (%):72-86%
Minimum RH (%):34-46%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 3 km/hr

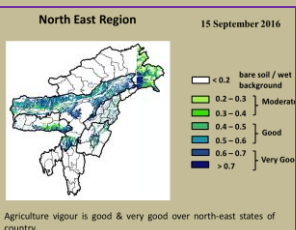
Rainfall: 00.0 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 23-24°C and 9-10°C. Maximum relative humidity is expected in the range of 95-97% and minimum may from 35-37%. Wind direction would be easterly to 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
	MAMIT	Coffee Berry borer AIZAWL	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

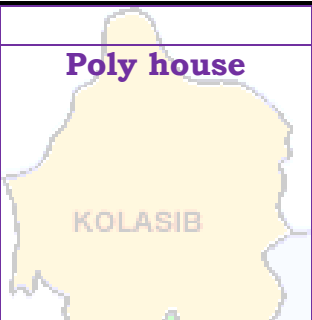
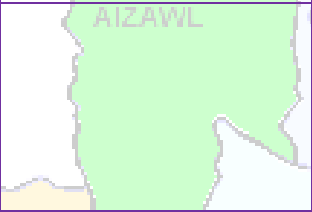
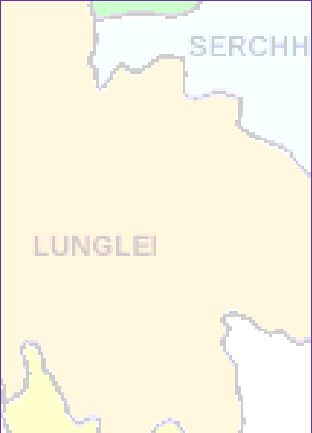


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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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: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/Mizo

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	24	23	23	23	22
Min Temp (°C)	10	10	10	10	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	95	95	95	97
Min RH (%)	37	37	37	35	37
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

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

Aizawl- 383.68mm (341.8mm)	Champhai- 239.49mm (250.30mm)	Saiha- 109.52 mm (87.2mm)	Kolasib- 352.38mm (380.9mm)
Lawngtlai-321.51mm (285.5mm)	Lunglei-344.00mm (186.21mm)	Mamit-449.48mm (442.80mm)	Serchhip-411.72mm (259.63mm)

Ni thum kalta sik leh sa dinhmun tlangpui

**31st December, 2016– 04th January, 2017
chhunga sik leh sa dinhmun tur tlangpui**

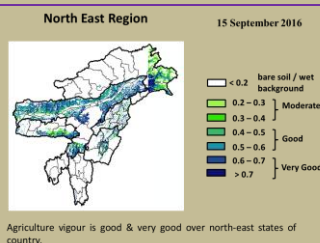
Maximum Tem. (°C):19-23°C
Minimum Tem. (°C):07-12°C
Maximum RH (%):72-86%
Minimum RH (%):34-46%
Wind Direction: Easterly
Cloud cover: Clear Sky
Wind speed: 3 km/hr

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-24°C a ni ang a. A vawh lai ber in 9-10°C ni tura beisei a ni. RH san lai berin 95-97% leh a hniam lai berin 35-37% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 00.0 mm

Weekly cumulative rainfall: 00.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Khasi Mandarin leh acid lime	Seng (Harvesting) hun		- Serthlum rah chu a hringduk atanga rawng eng dala arawn inthlak hunah lawh tur a ni. - Mandarins leh sweet oranges te hian an puitlin nan ni 240-280 vel an mamawh. - A rah puitling tawhin a hmin rawng a rawn chhuah tan hunah lawh tur a ni a, ni 10-15 inkar danah wawi 2- 3 lawh tur a ni - Limes leh lemons hian puitlin nan ni 150-160 an mamawh. - Limes leh lemons te hi kum khatah wawi 2 emaw wawi 3 emaw an rah thei. - Rei tak dahthat theihna tur vur bawm (cold storage)changtlung tak ser rah chi hrang hrang tan a awm hrang vek bawk a ni. - Ser rah te chu boruak thianghlim luh theihna tur bawm (CFB Box) 30 cm x 30cm x 30 cm azau ah pack fel tur a ni.
		Ser rah bawmtu rannung thlawkthei (Fruitfly)	Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
Sapthei	Seng (Harvesting) hun		- A kung phun a nih atanga thla sawm hnu ah rah a pe chhuak tan a, chuan thla 16-18 a nih thlengin a rah chhunzawm ta thin a ni. - Rah hun bik hi tum hnih (2) a nei a chu chu August -



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			December leh March- May ah te an ni. - A rah hmin nan ni 80-85 vel a mamawh thin. - A rah rawn senduk (purple) toh chu a kuang tlem a zawng nen lawh tel tur a ni. - A rah seng tawh ho chu a pian hmang leh rihna te a tlakhniam hma in a rang lam a hralh zawh vat tur a ni. - A ro hnu in a kor te chu zur angin lang mahse a chhung lam erawh ni engemaw chen chu ala tha vek thung ang. - A kung a natna nei te chu lakkhawm a hal ral vek tur. - Huan zau deuh nei te tan carbaryl 0.2 per cent emaw Malathion 0.15 per cent ah Jegger 10 gram tui litre 1 a siam chu pawlh tur a ni a, chu mi chu a par lai leh rah a chhuah tirhin kar 2 danah zel spray tur a ni.
		Sapthei rah bawmtu rannung thlawkthei (Fruitfly)	
Balhla	Seng (Harvesting) hun		- A hring atanga a eng a a inthlak hunah . - A thlar a balhla ho hmun li a then a hmun thum an pum that a a bak zawngin kil anla neih lain. - Balhla hi anla puam a an hrin that lai mahse an hmin hma si in. - Balhla te an sin lai leh rawng hring duk anla nih lai chuan sengloh tur a ni. - Rawng eng an nih tawh chuan seng nan a tlai tawh tihna a ni.
		Balhla zung eichhetu rannung (Banana Rhizome)	Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu



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		weevil)	tui chu rannung tui 50 per cent a keu hun velah kah tur a ni (July kar hmasa ber a ni tlangpui).
		Banana panama wilt	✚ Natna kai lo chauh phun tur. Natna kai ho chu a zung nen kara paih tur. Farm-a hmanraw hrang hrangte natna hrik kai lo tura tihfai thin bawk tur a ni.
		Banana beetle	✚ A bul vela hnim to tihfai tur ✚ A no rawn chawr thar mamawh loh te paih tur ✚ Alphamethrin 0.01 per cent hman tur
Oil palm	A rah insiam tan hunlai	AIZAWL CHAMPA SERCHHIP	✚ A nu leh pa par hma lutuk te thenfai tur ✚ Heihian a kung a ti thag tha in zung a kaih ngheh tir bik thin a ni. Phun atanga thla 14-18 velah an par tlangpui ✚ A par nu leh pa hi a kung in vui a rawn chhuah tan tirh ah pawh phawi vat tur anni. ✚ Kut in emaw a pawhphawina hmanrua DOPR in ansiam hmangin awlsam takin a tih theih a ni. ✚ Hetianga a par nu leh pa lak hi kum hnih leh chanve atanga kum thum annih vel thlengin a tih zawm theih a ni.
		LUNGLEI LAWNGTLAI SAIHA	✚ Thli leh rannung ten inthlahchhawanna kawngah an pui thin a, amaherawhchu thli hmanga inthlahchhawanna erawh hichuan a thawh hlawklo. ✚ Inthlahchhawn nan a rannung tangkai tak <i>Elaeidobius kamerunicus</i> hian a inthlahchhawanna ah leh a rah tur insiam kawngah a pui nasa hle a ni. ✚ Phun anih atanga kum hnih leh chanve hnu ah he rannung hi chhuah a tha a, kum thum hnu



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			a a kung in a that puiloh anih chuan he rannung hi chhuah vek tur a ni.
Colocasia	A seng hun	KOLASIB	- A hnah te a eng (yellow) tan in a then an tla tan bawk a, chu chuan seng a hun a ni tih a lan tir. - Phun atanga thla 6-8 liam hnu ah seng theih a ni. - Seng dawnin uluk takin a zung nen phawi chhuah vek tur a ni. - Bal chu lahrangin ni hlimah pho hul tur a ni.
Tomato	A chi kui hun	A chi kuitiahna hmun tur siam dan	- Huan zawlah a chi thehna tur lei rihvum tur, ni hmuh thatna hmun ni bawk se. - A hmun chu a vang zawng metre khat a zau tur a ni a, a sei zawng chu mahni huan remchan ang tawh a siam mai tur a ni. - FYM hi metre square khatah kg 1.5 – 2.0 hman tur a ni. - A chi hi awmze nei taka ngil taka theh tur a ni a, an inkar hlat zawng hi 7-10 cm tur a ni.
		Nursery natna (Damping off)	A chi hi kg 1 ah thiram gram 3 emaw Trichoderma viride gram 4 leh metalaxyl gram 4 chawhpawlh a enkawl tur a ni.
Sawhthing leh Aieng	Par a chhuah hma	LAWNGTLAI SAIHA	- Thlai hnah, a tang ro leh hnim te chu paihfai vek tur. - Lin tirh (a to chhuah hma) in Atrazine (Atratraf 50wp, Gesaprim 500fw) 1.0-1.5kg a.i tui litre 600 ah pawlh tur a ni. Alachlor (Lasso) @2.25kga.i ha⁻¹ Metolachlor (Dual) @1.5-2.0 kg a.i ha⁻¹, Pendimethalin (Stomp) @ 1-1.5kg a.i ha⁻¹ te hian hnimhnah lian lampang chi a



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		Turmeric shoot borer (Aieng kung ei chhetu ranning)	veng a ni. ✦ Ranning hlo imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1.0g emaw dimethoate 2ml emaw tui litre khatah pawlh a, hman tur a ni.
Kharif rice	A puitling hun/a vui insiam tan hun	KOLASIB	✦ A rawng chu a hring atangin gold rawngah a inthlak ang. ✦ Tui tling luan chhuahna tur mumal tak a sir kil khatah siam tur. ✦ A vui hmasa te tana harsatna awmlo tur in tui tling te chu paih chhuah vek tur.
		MAMIT	
		Sazu tihchhiat	✦ Sazu chhenna hmun tihchhiat leh fai taka buh hmun enkawl zir. ✦ Buh hmun leh achheh vel a awmhmun an khuar theihna tur atana hmanraw remchang hnimhna leh thlai ningnawi emaw buh bangnawi awmthei hrim hrim chu thenfai vek tur. ✦ Sazu in a a tihchhiat nasatna hmun ah chuan sazu hrai na tur 2 per cent Zinc phosphide (96 parts of broken rice + 2 parts of edible oil + 2 parts of 98% ZnP) hman tur a ni. ZNP tur (poison) hman hma in a thlem dan tur zir a enchhin hmasak phot tur a ni.
		AIZAWL	
		CHAMPAI	
		SERCHHIP	
		LUNGLEI	
		Sava tihchhiat	✦ Meithal chi hrim hrim eng pek chhuah pah a bengchheng siam thei hmanrua ✦ Balloon hampuar buh kunga tawnbeh hi sava hnawhbo nan senso hautaklo si a hman thin a ni. ✦ Lekhachhaih hi sava hlauh atan hman thin a ni bawk.
		LAWNGTLAI	
		SAIHA	



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		Rice yellow stem borer	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Bekang	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut thin tur.
Green gram, black gram leh French bean (nipui buh seng zawh hunah)	Par a chhuah hma	Zero tillage	- A kung bul leh a vel thenfai - A kung alo that a a zung in a thlawp that lehzuall nan a kung bul chawhphut rih vur thin tur. - French bean tan bik athlawp tu atan mau hman tur. - A rah athat lehzuall nan French bean tan bik chuan mumal takin a in henin leitha pek tur.
Vawk	Kumtluanin	Vawk natna	Vawkin heng natna chi hrang hrang nguina, che tha theilo, ek tang emaw kawthalo ang chi an lan tir a nih chuan ran doctor pan a rawn vat tur.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
	A puitling hun	Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
	A naupan lai	Black Quarter (BQ)	- Black Quarter Vaccine (BQ) - Thla ruk an tlin hunah vaccine lak tan tur. - Kumkhat hnu ah vaccine pek leh tur.
Ar	Ar ek enkawl dan		Atui awpna in ah eng darkar 12-



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		KOLASIB	14 tal a in chhi tur a ni. • An ekna tur hmun chu cm 7.5 – 10 inkar vel a chhah tur a ni. • Thingzei nawi emaw buhpawl emaw badam kawr emaw tehi an ekna tur atan a phah theih a ni. • Heng buhpawl, thingzei nawi te hi hnawng reng a vawn theih nan chinai phul tur a ni.
	Natna thlengthei enkawl lawk dan	0-3 rd week	✚ Ranikhet Disease- Ar note an pian hlimin F₁ vaccine pek tur a nia an puitlin hunah R₂B pek leh tur a ni. ✚ B complex leh antibodies
		4 th weeks	✚ Coccidiosis- Amprolium emaw coccidiostat pek tur.
		4-5 th weeks	✚ Calcium tonic leh B₁₂
	Bacillary White Diarrhoea	Eng kum tan pawh	✚ Ar thi zawng zawng hal ral vak tur ✚ Furaldone 0.5g chu tui litre khat ah chawhpawlh a hman tur.



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GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtlai

Period: 31 December, 2016 – 04 January, 2017

Bulletin No: - 665/2016/ Bulletin/English

Date of issue: 30th December, 2016

Parameters	31.12.2016	01.01.2017	02.01.2017	03.01.2017	04.01.2017
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	22	20	20	20	20
Min Temp (°C)	11	11	10	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	94	92	96	96	96
Min RH (%)	35	27	37	36	42
Wind Speed (Kmph)	5	5	4	4	4
*Wind Direction	E	E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):20-23°C
Minimum Tem. (°C): 6-9°C
Maximum RH (%):76-82%
Minimum RH (%):30-48%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4 km/hr

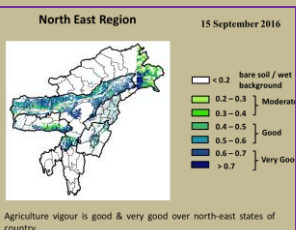
Rainfall: 02.1 mm

Weather forecast valid from 31st December, 2016 To 04th January, 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 20-22°C and 10-11°C. Maximum relative humidity is expected in the range of 92-96% and minimum may from 27-42%. Wind direction would be easterly with the wind speed of 4-5 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
	MAMIT	Coffee Berry borer AIZAWL	- 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 SERCHHIP 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).
CEREALS AND PULSE CROPS			
Rabi Maize	Sowing stage	LAWNGTLAI SAIHA	- Prepare the land for maize cultivation without any further delay. - This may help to avoid some cob borer infestation. - Seed is being placed in furrows. - Seed should be treated with Thiram @4 g/kg seed. - Use optimum seed rate (20-25 kg/ha) for desire plant population. - Apply well decomposed FYM @ 5-10 t/ha along with 80:60:40 kg N, P₂O₅ and K₂O/ha incorporate with soil



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			before sowing. Half nitrogen dose will use at the time of sowing and remaining 25% after one month and 25% at flowering stage.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	All stage	Zero tillage KOLASIB	- 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.
Potato	Sowing stage MAMIT	AIZAWL	- Prepare the land for potato cultivation without any further delay. - This may help to avoid some bacterial infection at growing stage. - Land may be ploughed thoroughly for proper tillage. - Seed must be treated before sowing. - Light irrigation on every alternate day may be given for better establishment and smooth growth.
VEGETABLE CROP			
Tomato	Bacterial Blight disease	LUNGLEI	- 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.
Early Cole crop	Black spot disease	LAWNGTLAI SAIHA	- 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

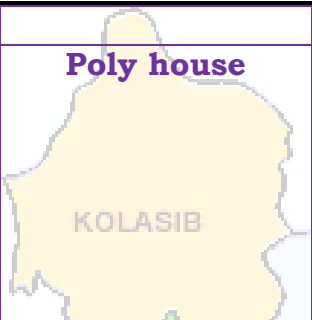
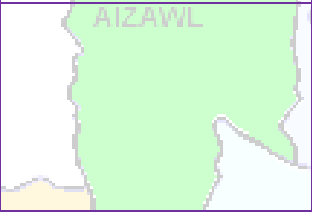
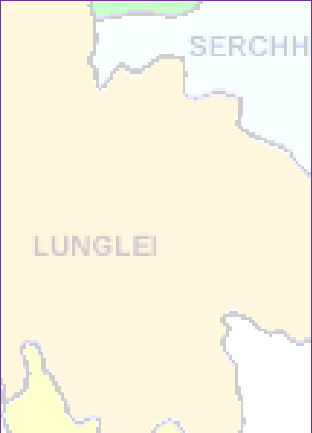


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Onion and capsicum	Nursery stage	 Poly house	may be sprayed. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Spray Pendimethalin @ 3.5ml/lt of water in nursery 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		- 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 weed free.
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 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



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			slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ 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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