



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: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	2	10	15
Max Temp (°C)	27	28	25	25	24
Min Temp (°C)	11	12	13	15	15
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	87	86	55	71	91
Min RH (%)	17	15	14	16	24
Wind Speed (Kmph)	4	4	6	6	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

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

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

Weather summary of the past three days

**15th March– 19th March, 2017 chhunga sik leh
sa dinhmun tur tlangpui**

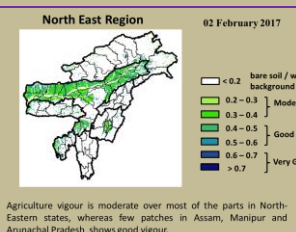
Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):13-14°C
Maximum RH (%):88-99%
Minimum RH (%):42-62%
Wind Direction: southeasterly
Cloud cover: Mainly clear
Wind speed: 3-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-28°C a ni ang a. A vawh lai ber in 11-15°C ni tura beisei a ni. RH san lai berin 55-91% leh a hniam lai berin 14-28% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 24.8 mm

Weekly cumulative rainfall: 27.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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

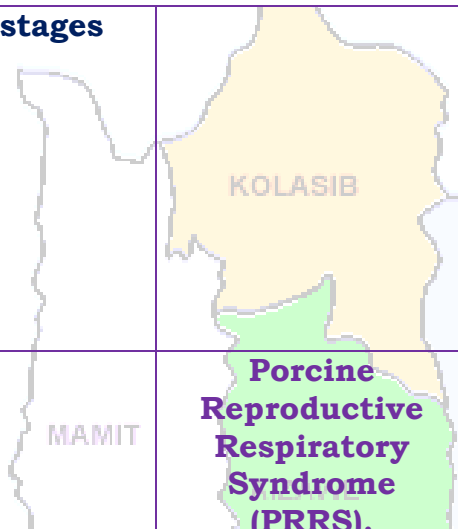
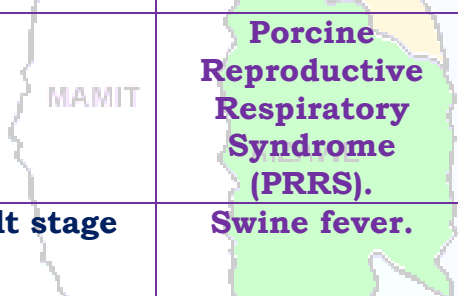
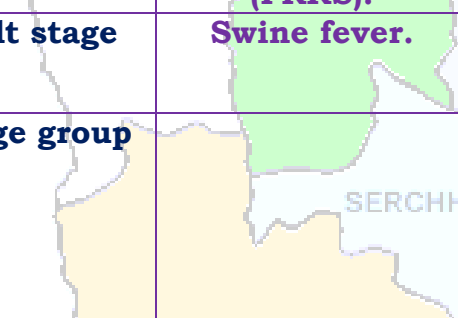
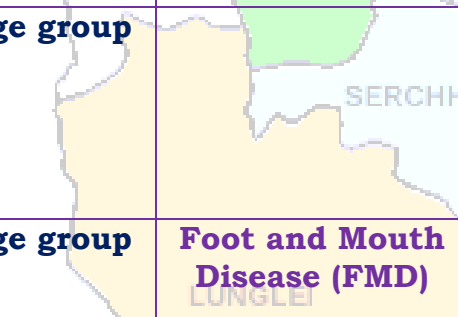
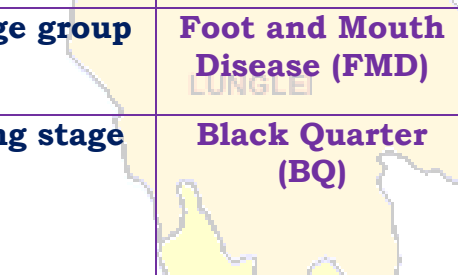
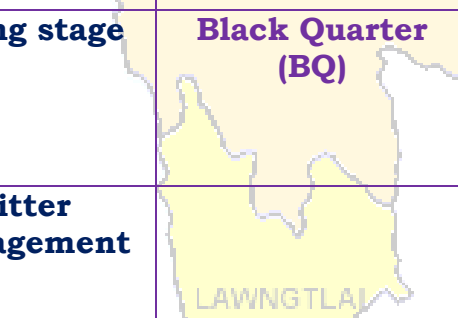


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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District: Lawntlai

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
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Min Temp (°C)	12	13	15	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Mainly clear
Max RH (%)	55	47	52	75	80
Min RH (%)	21	13	12	16	20
Wind Speed (Kmph)	6	5	5	5	4
*Wind Direction	N-E	N-E	N-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)

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Weather summary of the past three days

Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):81-95%
Minimum RH (%):31-55%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4-5 km/hr

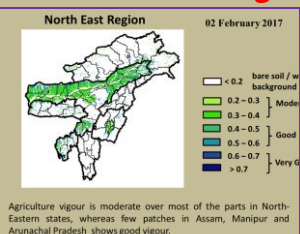
Rainfall: 21.3 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 25-28°C and 12-16°C. Maximum relative humidity is expected in the range of 47-80% and minimum may from 12-21%. Wind direction would be northeasterly to easterly with the wind speed of 4-6 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

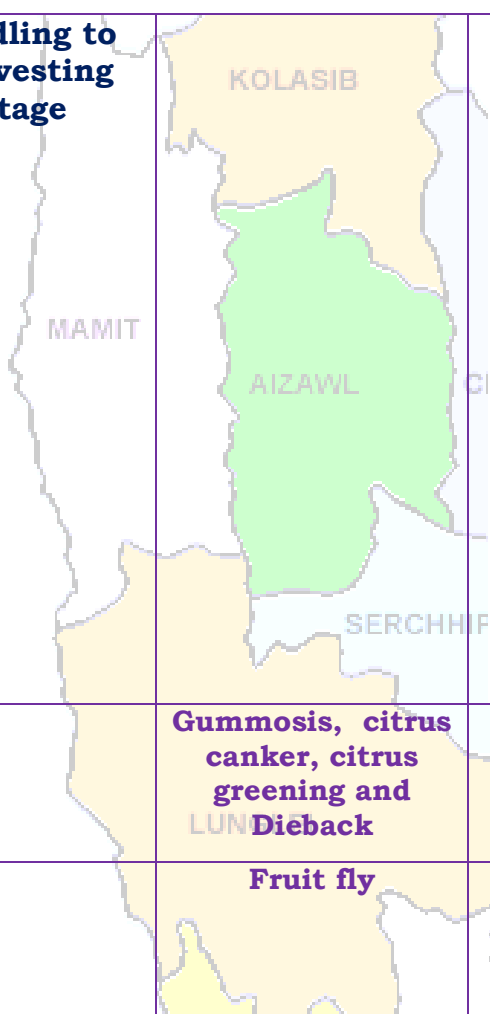
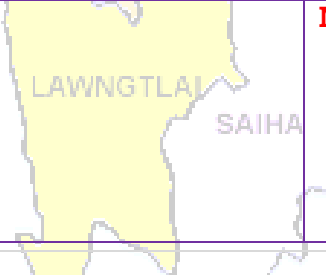


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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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 Azospirillum and Phosphobacterium 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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	
		Coffee Berry borer	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
		SERCHHIP	
		LUNGLEI	- 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	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation		✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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



			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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District: Lawngtlai

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	2	10	15
Max Temp (°C)	27	28	26	26	25
Min Temp (°C)	12	13	15	16	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Mainly clear
Max RH (%)	55	47	52	75	80
Min RH (%)	21	13	12	16	20
Wind Speed (Kmph)	6	5	5	5	4
*Wind Direction	N-E	N-E	N-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

15th March– 19th March, 2017 chhunga sik leh sa dinhmun tur tlangpui

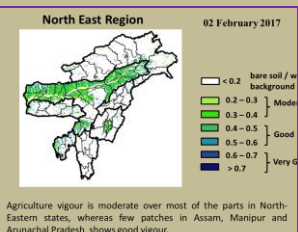
Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):81-95%
Minimum RH (%):31-55%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4-5 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-28°C a ni ang a. A vawh lai ber in 12-16°C ni tura beisei a ni. RH san lai berin 47-80% leh a hniam lai berin 12-21% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 21.3 mm

Weekly cumulative rainfall: 27.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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

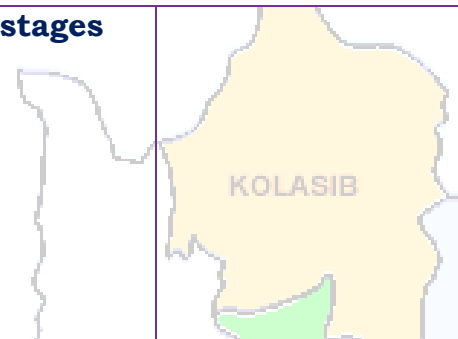
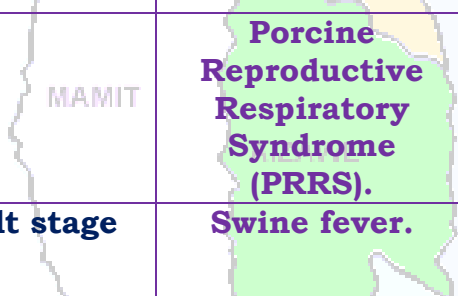
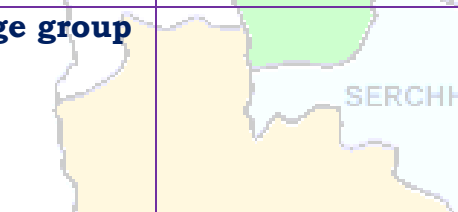
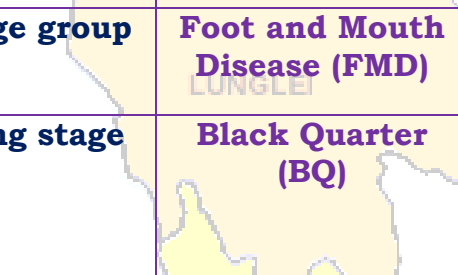
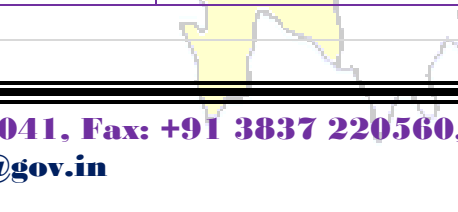


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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GRAMIN KRISHI MAUSAM SEWA
ICAR RESEARCH COMPLEX FOR NEH REGION
 Mizoram Centre, Kolasib- 796081, MIZORAM
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District: Lunglei

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	10	17
Max Temp (°C)	27	28	27	26	25
Min Temp (°C)	13	15	15	16	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	60	51	60	61	89
Min RH (%)	19	15	13	16	22
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):21-22°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):85-93%
Minimum RH (%):31-54%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

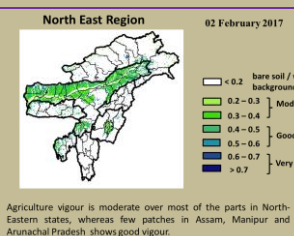
Rainfall: 12.3 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 25-27°C and 13-16°C. Maximum relative humidity is expected in the range of 51-89% and minimum may from 13-22%. Wind direction would be easterly to with the wind speed of 4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer	- 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	
		LUNGLEI	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).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation		✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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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: Lunglei

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
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Max RH (%)	60	51	60	61	89
Min RH (%)	19	15	13	16	22
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

**15th March– 19th March, 2017 chhunga sik leh
 sa dinhmun tur tlangpui**

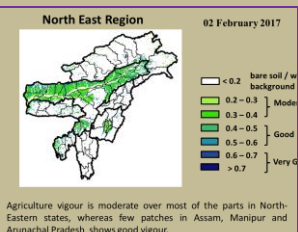
Maximum Tem. (°C):21-22°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):85-93%
Minimum RH (%):31-54%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-27°C a ni ang a. A vawh lai ber in 13-16°C ni tura beisei a ni. RH san lai berin 51-89% leh a hniam lai berin 13-22% 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: 12.3 mm

Weekly cumulative rainfall: 27.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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

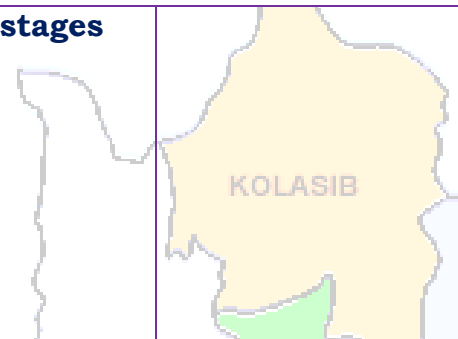
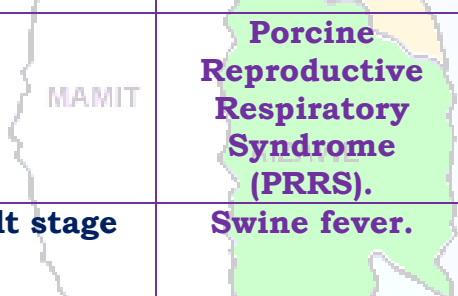
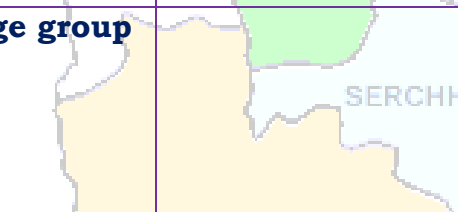
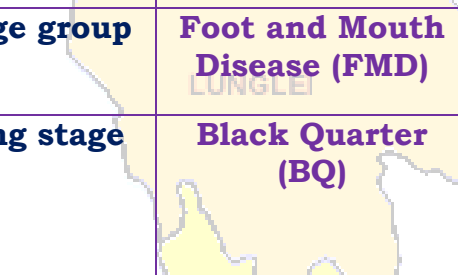
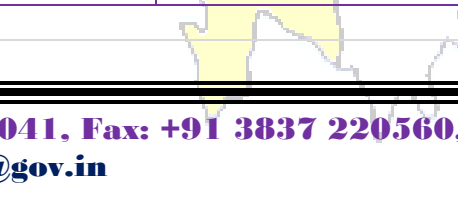


GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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



District: Mamit

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	10	16
Max Temp (°C)	28	28	29	27	26
Min Temp (°C)	14	14	14	15	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	74	72	55	70	91
Min RH (%)	17	14	13	17	25
Wind Speed (Kmph)	4	4	4	5	4
*Wind Direction	E	E	S-E	S-E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):24-26°C
Minimum Tem. (°C): 12-14°C
Maximum RH (%):75-99%
Minimum RH (%):34-60%
Wind Direction: southeasterly
Cloud cover: Partially clear
Wind speed: 3-4 km/hr

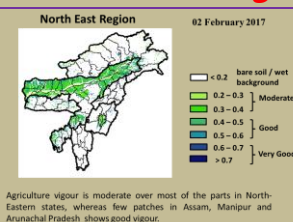
Rainfall: 19.5 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-29°C and 14-15°C. Maximum relative humidity is expected in the range of 55-91% and minimum may from 17-25%. Wind direction would be easterly to southeasterly and easterly with the wind speed of 4-5 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 26.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

Main Crop/	Stage	Cultural	Agricultural / Horticultural/ animal
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Animal / Fisheries		practices/ Pest/ Diseases	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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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



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		KOLASIB	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 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	- 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).
Rubber	All stages	LUNGLEI LAWNGTLAI SAIHA	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to time to minimise the weeds and to



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			improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation	KOLASIB	✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage	MAMIT AIZAWL	✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i>.
Potato	Vegetative growth stage	SERCHHIP LUNGLEI	✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ 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



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			Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg/ha. - Sow 2-3 seed per whole.



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Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Spacing should be 30 X 20 cm. - Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter	Black Quarter Vaccine (BQV).



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		(BQ)	❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week AIZAWL	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAL SAIHA	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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District: Mamit

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

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*Wind Direction	E	E	S-E	S-E	E

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

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

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

Weather summary of the past three days

**15th March– 19th March, 2017 chhunga sik leh
 sa dinhmun tur tlangpui**

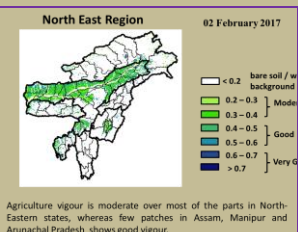
Maximum Tem. (°C):24-26°C
Minimum Tem. (°C): 12-14°C
Maximum RH (%):75-99%
Minimum RH (%):34-60%
Wind Direction: southeasterly
Cloud cover: Partially clear
Wind speed: 3-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-29°C a ni ang a. A vawh lai ber in 14-15°C ni tura beisei a ni. RH san lai berin 55-91% leh a hniam lai berin 17-25% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 19.5 mm

Weekly cumulative rainfall: 26.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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

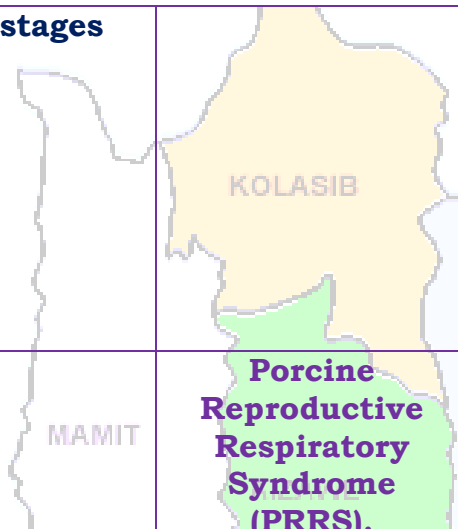
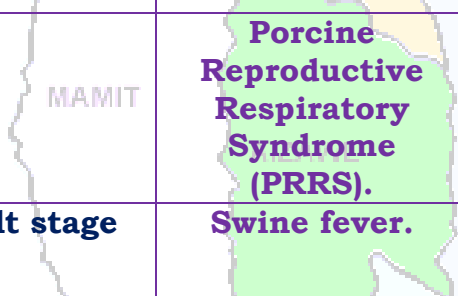
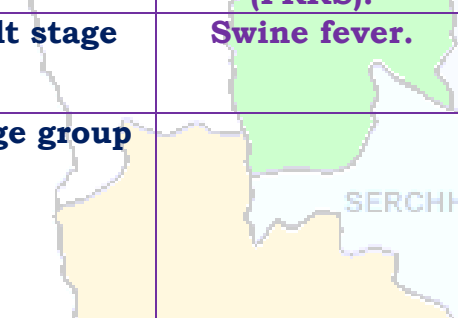
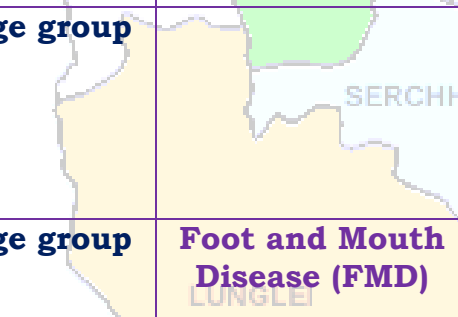
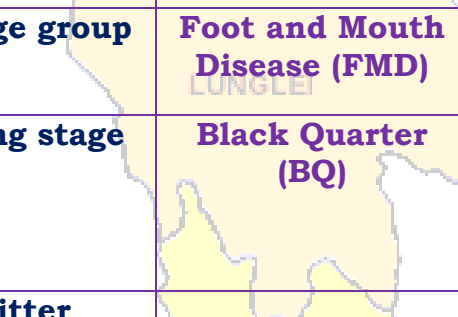
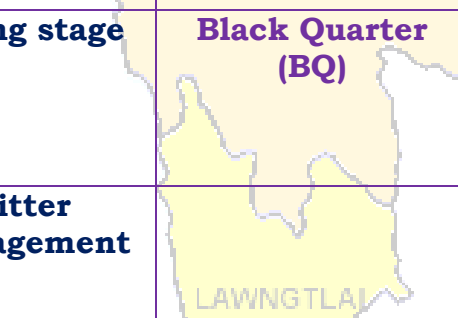


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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District: Saiha

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	5	10
Max Temp (°C)	26	28	28	26	25
Min Temp (°C)	13	14	15	16	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	58	48	46	75	80
Min RH (%)	21	12	11	12	17
Wind Speed (Kmph)	4	4	5	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):21-24°C
Minimum Tem. (°C):12-13°C
Maximum RH (%):84-96%
Minimum RH (%):38-58%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 3-4 km/hr

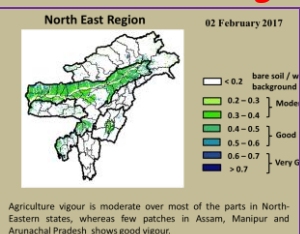
Rainfall: 9.8 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There is chance of moderate to light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 25-28°C and 14-16°C. Maximum relative humidity is expected in the range of 46-80% and minimum may from 11-21%. Wind direction would be northeasterly to easterly with the wind speed of 4-5 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 15.0 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	
		Coffee Berry borer	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
		SERCHHIP	
		LUNGLEI	- 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	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation		✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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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: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	5	10
Max Temp (°C)	26	28	28	26	25
Min Temp (°C)	13	14	15	16	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	58	48	46	75	80
Min RH (%)	21	12	11	12	17
Wind Speed (Kmph)	4	4	5	4	4
*Wind Direction	N-E	N-E	E	E	E

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

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

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

Weather summary of the past three days

**15th March– 19th March, 2017 chhunga sik leh
 sa dinhmun tur tlangpui**

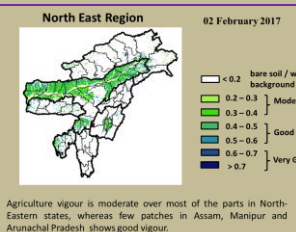
Maximum Tem. (°C):21-24°C
Minimum Tem. (°C):12-13°C
Maximum RH (%):84-96%
Minimum RH (%):38-58%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 3-4 km/hr

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-28°C a ni ang a. A vawh lai ber in 14-16°C ni tura beisei a ni. RH san lai berin 46-80% leh a hniam lai berin 11-21% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 9.8 mm

Weekly cumulative rainfall: 15.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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



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

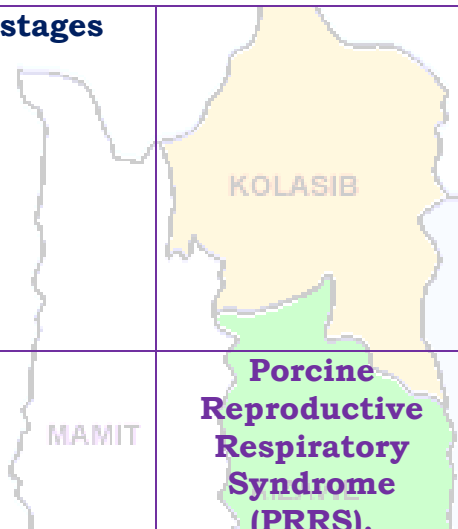
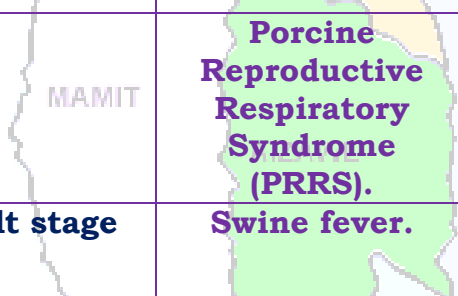
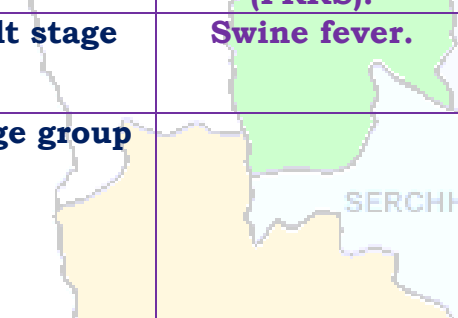
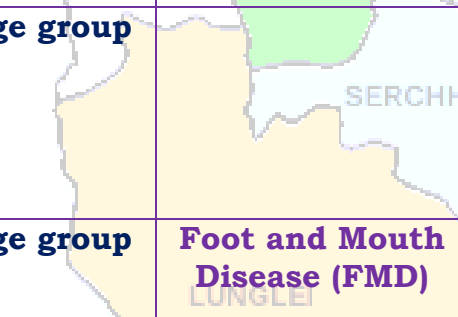
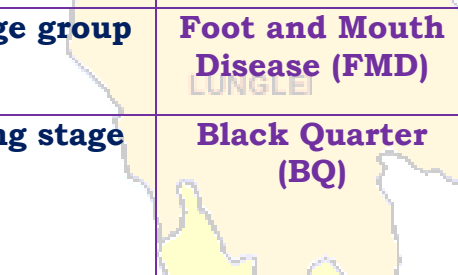
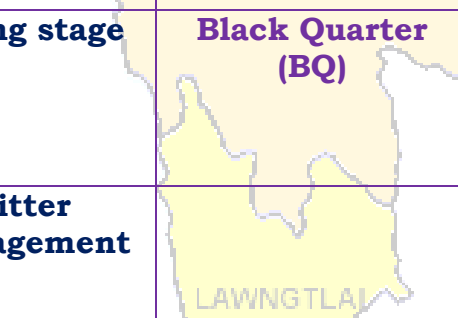


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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 Mizoram Centre, Kolasib- 796081, MIZORAM
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District: Serchhip

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	10	15
Max Temp (°C)	27	28	29	26	25
Min Temp (°C)	13	13	14	15	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	69	59	63	80	94
Min RH (%)	19	16	14	15	21
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):21-24°C
Minimum Tem. (°C):11-14°C
Maximum RH (%):82-94%
Minimum RH (%):24-51%
Wind Direction: southeasterly
Cloud cover: Clear sky
Wind speed: 2-4 km/hr

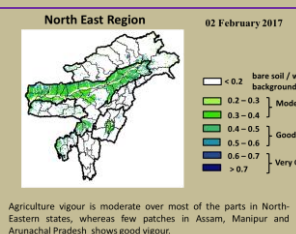
Rainfall: 17.3 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 25-28°C and 13-15°C. Maximum relative humidity is expected in the range of 59-94% and minimum may from 14-21%. Wind direction would be easterly with the wind speed of 4 km per hour. Mainly clear sky will prevail during the next five days.

Weekly cumulative rainfall: 25.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

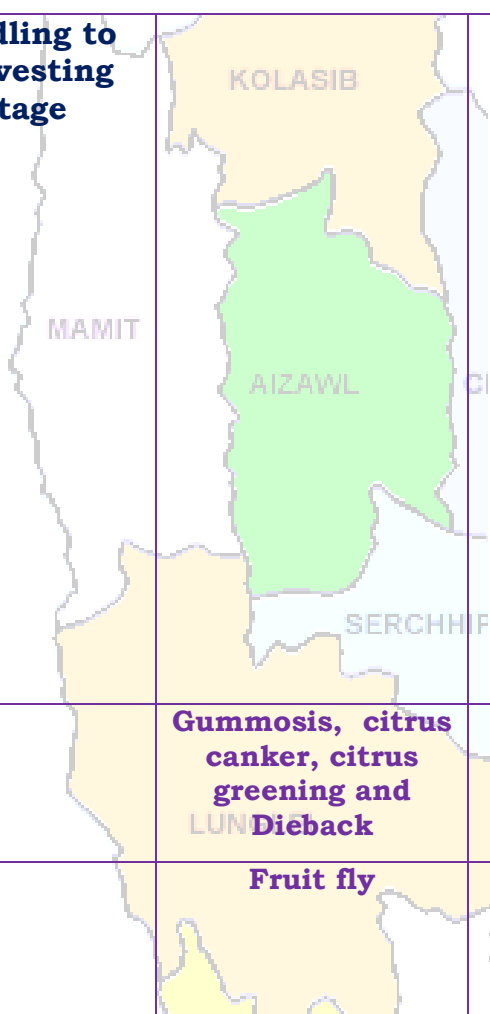
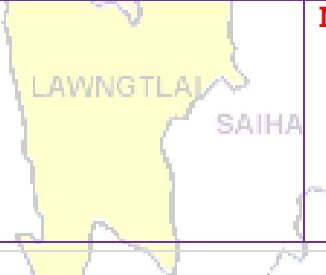


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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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 Azospirillum and Phosphobacterium 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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer	- 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	
		LUNGLEI	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).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation	KOLASIB	✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage	MAMIT AIZAWL	✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage	SERCHHIP LUNGLEI	✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage	LAWNGTLAI	✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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District: Serchhip

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	0	10	15
Max Temp (°C)	27	28	29	26	25
Min Temp (°C)	13	13	14	15	15
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Partially clear
Max RH (%)	69	59	63	80	94
Min RH (%)	19	16	14	15	21
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

**15th March– 19th March, 2017 chhunga sik leh
 sa dinhmun tur tlangpui**

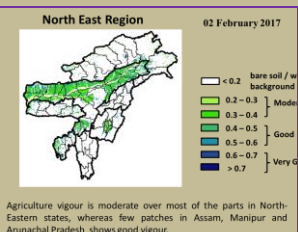
Maximum Tem. (°C):21-24°C
Minimum Tem. (°C):11-14°C
Maximum RH (%):82-94%
Minimum RH (%):24-51%
Wind Direction: southeasterly
Cloud cover: Clear sky
Wind speed: 2-4 km/hr

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-28°C a ni ang a. A vawh lai ber in 13-15°C ni tura beisei a ni. RH san lai berin 59-94% leh a hniam lai berin 14-21% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 17.3 mm

Weekly cumulative rainfall: 25.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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



District: Aizawl

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	2	10	16
Max Temp (°C)	27	27	26	25	25
Min Temp (°C)	12	12	13	13	13
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	83	80	57	70	92
Min RH (%)	17	14	13	16	24
Wind Speed (Kmph)	4	4	4	5	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):22-25°C
Minimum Tem. (°C):13-14°C
Maximum RH (%):82-96%
Minimum RH (%):21-53%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind speed: 3-4 km/hr

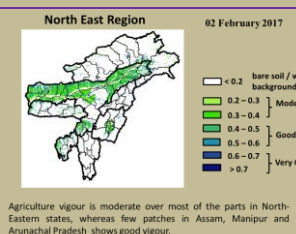
Rainfall: 16.5 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 25-27°C and 12-13°C. Maximum relative humidity is expected in the range of 57-92% and minimum may from 17-24%. Wind direction would be southeasterly with the wind speed of 4-5 km per hour. Partially clear will prevail during the next five days.

Weekly cumulative rainfall: 28.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

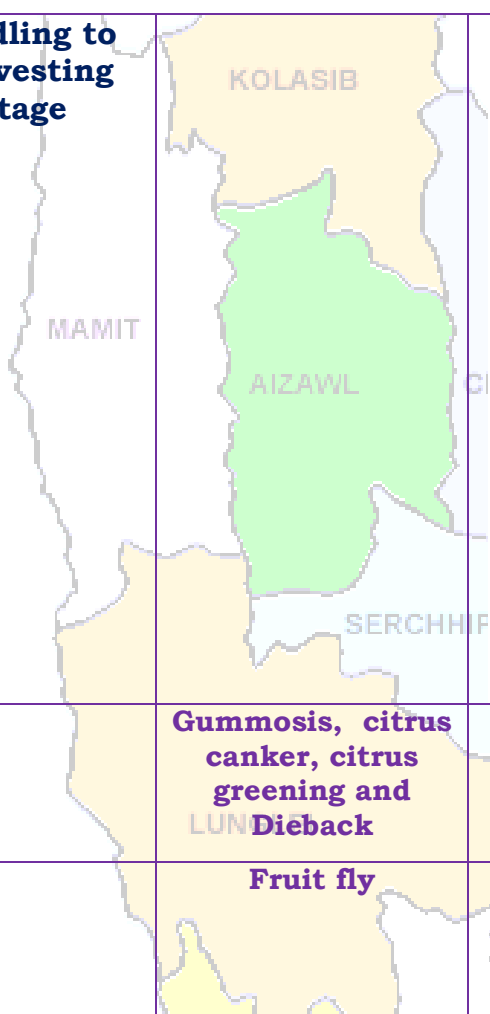
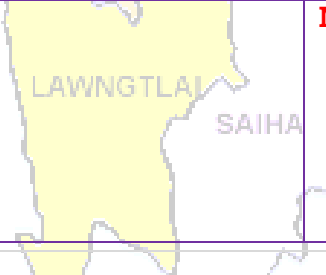


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Mizoram Centre, Kolasib- 796081, MIZORAM

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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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 Azospirillum and Phosphobacterium 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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	
		Coffee Berry borer	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
		SERCHHIP	
		LUNGLEI	- 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	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation	KOLASIB	✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	Cob formation stage	MAMIT AIZAWL	✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage	SERCHHIP LUNGLEI	✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage	LAWNGTLAI	✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt SAIHA	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hectare. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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District: Aizawl

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	2	10	16
Max Temp (°C)	27	27	26	25	25
Min Temp (°C)	12	12	13	13	13
Cloud Coverage	Clear sky	Clear sky	Partially clear	Partially clear	Mainly cloudy
Max RH (%)	83	80	57	70	92
Min RH (%)	17	14	13	16	24
Wind Speed (Kmph)	4	4	4	5	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

15th March– 19th March, 2017 chhunga sik leh sa dinhmun tur tlangpui

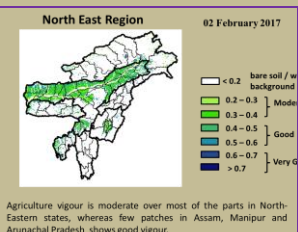
Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):13-14°C
Maximum RH (%):82-96%
Minimum RH (%):21-53%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind speed: 3-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-27°C a ni ang a. A vawh lai ber in 12-13°C ni tura beisei a ni. RH san lai berin 57-92% leh a hniam lai berin 17-24% 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: 16.5 mm

Weekly cumulative rainfall: 28.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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



District: Champhai

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	1	5	15
Max Temp (°C)	27	27	26	26	25
Min Temp (°C)	12	12	13	15	16
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	74	69	56	64	87
Min RH (%)	20	15	14	14	22
Wind Speed (Kmph)	6	5	6	5	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):22-24°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):85-96%
Minimum RH (%):26-48%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

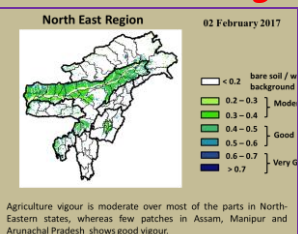
Rainfall: 24.5 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 25-27°C and 12-16°C. Maximum relative humidity is expected in the range of 56-87% and minimum may from 14-22%. Wind direction would be southeasterly with the wind speed of 4-6 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 20.0 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	
		Coffee Berry borer	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
		SERCHHIP	
		LUNGLEI	- 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	- Destroy all infected leaves and plant parts. - Spray 0.5% Bordeaux mixture in February - March (Pre-bloom) followed by 0.03% Oxycarboxin in May - June (Pre-monsoon).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation		✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as a mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hactore. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	- Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. - Good management and sanitation are the best ways to avoid infectious disease in poultry. - Provide ample quantity of clean drinking water. - Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	- Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. - B complex with antibodies
		4 th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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



District: Champhai

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/Mizo

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
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Wind Speed (Kmph)	6	5	6	5	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

**15th March– 19th March, 2017 chhunga sik leh
 sa dinhmun tur tlangpui**

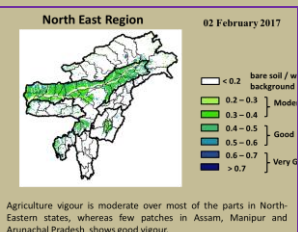
Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):11-13°C
Maximum RH (%):85-96%
Minimum RH (%):26-48%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-27°C a ni ang a. A vawh lai ber in 12-16°C ni tura beisei a ni. RH san lai berin 56-87% leh a hniam lai berin 14-22% ni tur a rin niin. Thli hi darkar khatah 4-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 24.5 mm

Weekly cumulative rainfall: 20.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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

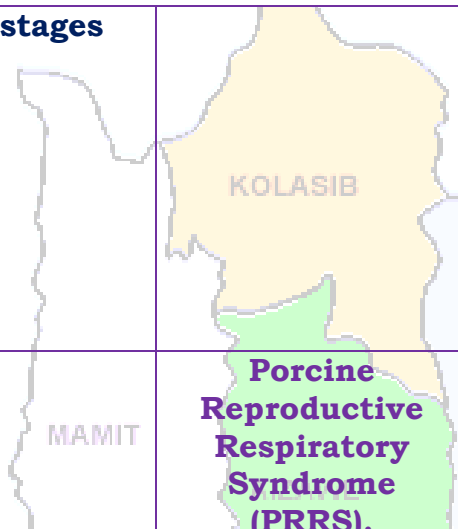
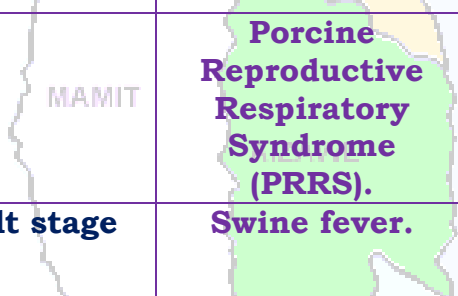
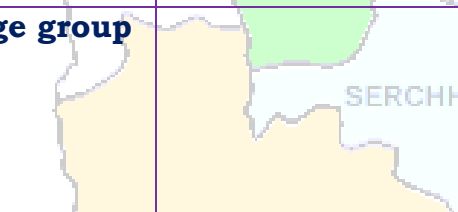
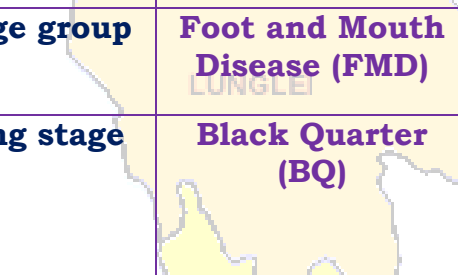
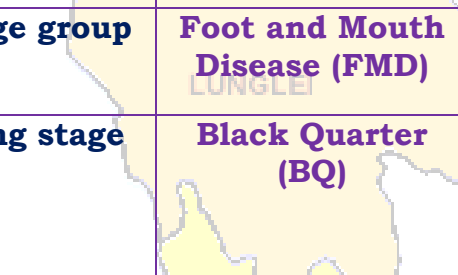
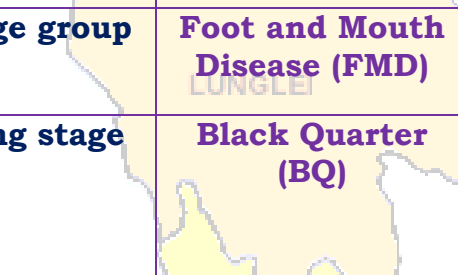


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ANIMAL HUSBANDRY			
Pig	All stages		- Khua a vawh hian vawk hian an mahni in tih lumna tur atan chakna an mamawhna a sang bik ani. - An hriselna that leh that loh enfiah renga, a chaw ei tur tlem tlema tih tam hret hret tur ani.. - Sangha tel ah hian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



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			- Tui an in tur chhawpna tur tha /lian tha tak leh tui thianghlim tak pek tur ani. - Chaw a hmuar/thing pek loh tur ani a, an chaw eitur thlak sak thut loh tur ani.
	Preventive measures	0-3rd week	Ranikhet Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R₂B vaccine pek tur ani. - B complex with antibodies
		4th weeks	Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation (Dil buatsaih)	0-2 weeks	Dil buatsaihnan a tihtur pawimawh tak chu dil mawng phoro a lehphut deuh ani a, chu chuan dil mawng lei a boruak chhia chambangte a chhuahtir thin
			Dil mawng lei thur leh thurloh entir a, a thurdan a zirin chinai phul thin tur ani. Chu chuan tui thur a siam tha mai nilovin natna lak atangin sangha te a veng theiin, calcium an hmuhnan a thil tha tak ani bawk
			Dil a hnimhnah leh bawlhhlawh awmte thenfai vek hian dil boruak chhetur lak atangin a veng a, sangha tan a hlauhawm leh tibuai thei rannung lak atangin a veng thei bawk



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District: Kolasib

Period: 15 March – 19 March, 2017

Bulletin No: - 683/2016/ Bulletin/English

Date of issue: 14th March, 2017

Parameters	15.03.2017	16.03.2017	17.03.2017	18.03.2017	19.03.2017
Rainfall (mm)	0	0	2	10	15
Max Temp (°C)	27	28	25	25	24
Min Temp (°C)	11	12	13	15	15
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	87	86	55	71	91
Min RH (%)	17	15	14	16	24
Wind Speed (Kmph)	4	4	6	6	4
*Wind Direction	S-E	S-E	S-E	S-E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):22-24°C
Minimum Tem. (°C):13-14°C
Maximum RH (%):88-99%
Minimum RH (%):42-62%
Wind Direction: southeasterly
Cloud cover: Mainly clear
Wind speed: 3-4 km/hr

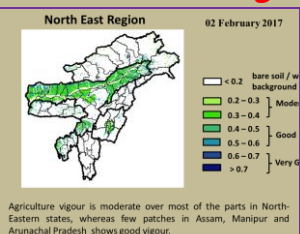
Rainfall: 24.8 mm

Weather forecast valid from 15th March, 2017 To 19th March, 2017.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 24-28°C and 11-15°C. Maximum relative humidity is expected in the range of 55-91% and minimum may from 14-24%. Wind direction would be southeasterly to easterly with the wind speed of 4-6 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: 27.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

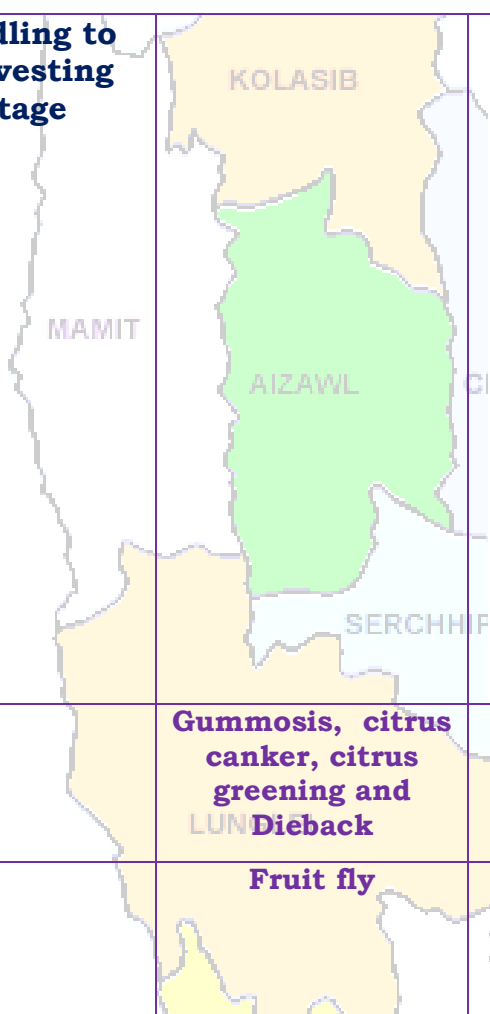
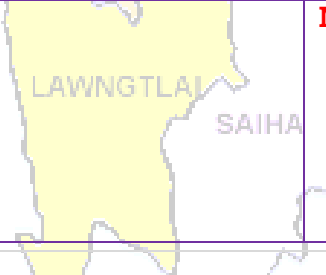


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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME	Seedling to Harvesting stage		- Mulching should be done with dry grasses 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. - The land should be ploughed time to time to minimise the weeds and to improve the soil physical condition. - Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
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.



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		KOLASIB	- 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 secondary nursery beds for raising ball or Bag nursery.
		MAMIT	Harvesting Stage - Ripe coffee berry can be harvest through fly picking or main picking in winter season. - Unripe fruits should be scrupulously sorted out before using the fruits for pulping
		Coffee Berry borer	- 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	
		LUNGLEI	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).
Rubber	All stages	LAWNGTLAI	- Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. - The young plant must be irrigated at weekly interval for better establishment. - The land should be ploughed time to
		SAIHA	



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			time to minimise the weeds and to improve the soil physical condition. ✚ Use Bordeaux paste or insecticide paste mixture to reduce the damage of white ant upto 4 feet height.
CEREALS AND PULSE CROPS			
Maize (Jhum)	Land preparation		✚ Remove all weed plant from the selected place. ✚ Keep the plant, leaves and wood for dry. ✚ Burn it when it will be dry.
Rabi Maize	vegetative stage		✚ Light irrigation on every week may be given for better establishment and smooth growth. ✚ Earthing up soil near to plant for better support. ✚ Maize rust disease will prevail due to high relative humidity with low temperature. Apply Mancozeb Kg/ha for effective control. ✚ Remove the alternate host <i>Oxalis comiculata</i> .
Potato	Vegetative growth stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ Earthing up soil for better aeration of root growth. ✚ If irrigation is not available keep grass and dry leaves as mulch.
VEGETABLE CROP			
Tomato	Harvesting stage		✚ Light irrigation on every alternate day may be given for better establishment and smooth growth. ✚ If irrigation is not available keep grass and dry leaves as mulch. ✚ Harvest all the mature which colour change to pale yellow to red.
		Bacterial wilt	✚ Prevailing weather may conducive for blight in Tomato. ✚ Cloudy and humid weather is most favorable for the disease.



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			To manage the blight in tomato apply Ridomil or Indofil or Mancozeb @ 2 gm per liter of water.
		Powdery mildew 	- High temperature during day and low temperature in night with high humidity led to increase the wetness of leaves of tomato which cause powdery mildew disease. - Burn all infected leaves. - Apply sulfur 5 kg/hactore. - Apply in morning or evening, because sulfur can burn tomato plants in the direct sunlight.
Onion and capsicum	Vegetative and fruiting stage		- One or two side dressings of nitrogen are applied during a season. - These side dressings may be applied through the irrigation system. - Light irrigation on every alternate day may be given for better establishment and smooth growth. - Mulching must be done after irrigation. - Harvest all mature fruits in capsicum.
		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	Harvesting stage		- Harvest all mature fruits and keep the seeds dry. - Store the seeds for next year sowing.
Carrot and radish	Harvesting stage		- Light irrigation on every alternate day may be given for better establishment and smooth growth. - Harvest all mature plants.
Cowpea	Sowing stage		- Plough the field properly, at least 2-3 times. - Mix fertilizer with FYM 50:60:60Kg /ha.



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			- Sow 2-3 seed per whole. - Spacing should be 30 X 20 cm.
Okra	Sowing stage	Weeding and light irrigation in nursery bed. Provide irrigation in transplanted okra field.	- Plough the field with the help of spade. - Sow 2 seed 45 X 45 cm spacing. - Before sowing seed provide one or two irrigation. - Provide fertilizer @ 120: 60: 60 Kg/ha
Ginger and turmeric	Land preparation		- Remove all weed plant from the selected place. - Keep the plant, leaves and wood for dry. - Burn it when it will be dry.
ANIMAL HUSBANDRY			
Pig	All stages		- As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. - Regularly monitor their level of 'fitness' and increase their feed intake to maintain. - Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group		Due to prolong dry spell there is a shortage of green grass in the field. For balanced diet and nutrition to your cattle, provide urea molasses treated paddy straw.
	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.



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	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Birds require adequate space, sufficient feed to meet their nutritional requirements and an adequate supply of good-quality water. ✚ Good management and sanitation are the best ways to avoid infectious disease in poultry. ✚ Provide ample quantity of clean drinking water. ✚ Avoid feeding of mouldy feed. Don't make sudden changes in feed
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
FISHERY			
	Pond preparation	0-2 th weeks	✚ Drying and tilling of the pond bottom is an important step in preparation of pond which enables release of toxic gases from the pond bottom.
		LUNGLEI	✚ The pH of the pond bottom soil needs to be tested and appropriate quantity of lime should be applied depending on the soil pH. Liming not only helps in correcting the pH but helps in preventing disease as well as acts as a source of calcium for the fishes.
		LAWNGTLAI	✚ Complete eradication of aquatic weeds helps in avoiding deterioration of pond environment and protecting fishes from unwanted fishes and aquatic insects.



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