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: 18 March – 22 March, 2017**

Bulletin No: - 684/2016/ Bulletin/English **Date of issue: 17th March, 2017**

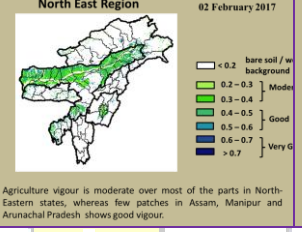
Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	10	7	18	0
Max Temp (ºC)	27	26	26	25	26
Min Temp (ºC)	8	9	10	10	9
Cloud Coverage	Clear sky	Partially clear	Partially clear	Partially clear	Clear sky
Max RH (%)	57	92	78	99	96
Min RH (%)	19	23	23	31	54
Wind Speed (KmpH)	4	4	3	3	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	Weather forecast valid from 18th March, 2017 To 22th March, 2017.
Maximum Tem. (ºC):26-27ºC **Minimum Tem. (ºC):**12-14ºC **Maximum RH (%):**64-81% **Minimum RH (%):**21-34% **Wind Direction:** Southeasterly **Cloud cover:** Clear sky **Wind speed:** 3-4 km/hr **Rainfall:** 00.0 mm	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 25-27ºC and 8-10ºC. Maximum relative humidity is expected in the range of 57-99% and minimum may from 19-54%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear will prevail during the next five days. ***Weekly cumulative rainfall:*** **35.0 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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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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			➢ 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. **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 %.
		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**		➢ 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

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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	**Cob formation 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 *Oxalis comiculata.*
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/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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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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Wind Speed (KmpH)	4	4	3	3	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)
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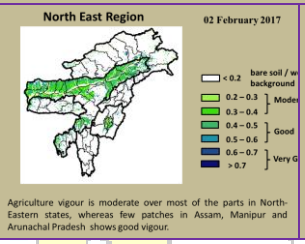
Weather summary of the past three days	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-27ºC **Minimum Tem. (ºC):**12-14ºC **Maximum RH (%):**64-81% **Minimum RH (%):**21-34% **Wind Direction:** Southeasterly **Cloud cover:** Clear sky **Wind speed:** 3-4 km/hr **Rainfall:** 00.0 mm	Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-27ºC a ni ang a. A vawh lai ber in 8-10ºC ni tura beisei a ni. RH san lai berin 57-99% leh a hniam lai berin 19-54% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **35.0mm**

NDVI for Mizoram		
	 Agriculture vigour is moderate over most of the parts in North-Eastern states, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.	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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei rannung lak atangin a veng thei bawk

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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: 18 March – 22 March, 2017**

Bulletin No: - 684/2016/ Bulletin/English **Date of issue: 17th March, 2017**

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	7	4	22	4
Max Temp (ºC)	30	28	27	26	26
Min Temp (ºC)	14	15	15	16	15
Cloud Coverage	Clear sky	Partially clear	Partially clear	Partially clear	Clear sky
Max RH (%)	51	86	72	97	94
Min RH (%)	20	22	21	28	61
Wind Speed (KmpH)	4	4	3	4	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days

Maximum Tem. (ºC):25-28ºC
Minimum Tem. (ºC):11-13ºC
Maximum RH (%):56-87%
Minimum RH (%):26-39%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

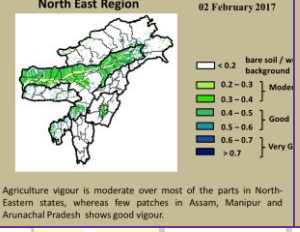
Rainfall: 00.0 mm

Weather forecast valid from 18th March, 2017 To 22th March, 2017.

There are chances of moderate to light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 26-30ºC and 14-15ºC. Maximum relative humidity is expected in the range of 51-97% and minimum may from 20-61%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially clear sky will prevail during the next five days.

Weekly cumulative rainfall: **37.0 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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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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			➢ 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. **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 %.
		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**		➢ 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

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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 *Oxalis comiculata.*
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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 18 March – 22 March, 2017**

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue: 17th March, 2017**

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

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

Aizawl- 384.87mm (430.2mm)	Champhai- 105.48mm (359.89mm)	Saiha- 307.40 mm (507.7mm)	Kolasib- 236.00mm (428.1mm)
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Weather summary of the past three days

Maximum Tem. (ºC):25-28ºC
Minimum Tem. (ºC):11-13ºC
Maximum RH (%):56-87%
Minimum RH (%):26-39%
Wind Direction: Southeasterly
Cloud cover: Mainly clear
Wind Speed: 3-4 km/hr

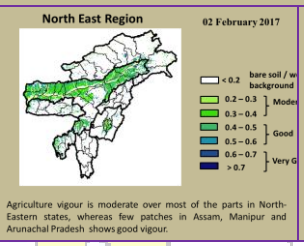
Rainfall: 00.0 mm

18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-30ºC a ni ang a. A vawh lai ber in 14-15ºC ni tura beisei a ni. RH san lai berin 51-97% leh a hniam lai berin 20-61% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **37.0mm**

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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei rannung lak atangin a veng thei bawk

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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: 18 March – 22 March, 2017**

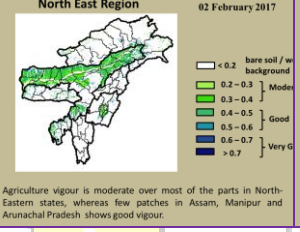
Bulletin No: - 684/2016/ Bulletin/English **Date of issue: 17th March, 2017**

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	9	6	11	0
Max Temp (ºC)	28	26	26	25	28
Min Temp (ºC)	14	15	15	16	14
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly clear	Clear sky
Max RH (%)	59	96	78	99	93
Min RH (%)	20	25	24	34	50
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days	Weather forecast valid from 18th March, 2017 To 22th March, 2017.
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**13-15ºC **Maximum RH (%):**57-74% **Minimum RH (%):**30-32% **Wind Direction:** southeasterly **Cloud cover:** Mainly clear **Wind speed:** 4 km/hr **Rainfall:** 00.0 mm	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 25-28ºC and 14-16ºC. Maximum relative humidity is expected in the range of 59-99% and minimum may from 20-50%. Wind direction would be southeasterly with the wind speed of 4 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

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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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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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			↓ 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. **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 %.
		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**		↓ 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

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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 *Oxalis comiculata.*
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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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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Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue:** 17th March, 2017

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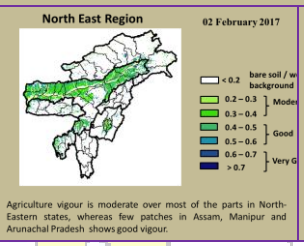
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**13-15ºC **Maximum RH (%):**57-74% **Minimum RH (%):**30-32% **Wind Direction:** southeasterly **Cloud cover:** Mainly clear **Wind speed:** 4 km/hr **Rainfall:** 00.0 mm	Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-28ºC a ni ang a. A vawh lai ber in 14-16ºC ni tura beisei a ni. RH san lai berin 59-99% leh a hniam lai berin 20-50% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei 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: Lawntlai **Period:** 18 March – 22 March, 2017

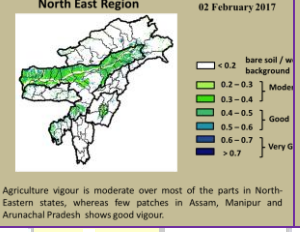
Bulletin No: - 684/2016/ Bulletin/English **Date of issue:** 17th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	4	0	14	0
Max Temp (ºC)	30	28	30	28	30
Min Temp (ºC)	13	15	13	15	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	61	74	67	85	94
Min RH (%)	17	20	23	27	51
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	Weather forecast valid from 18th March, 2017 To 22th March, 2017.
Maximum Tem. (ºC):25-27ºC **Minimum Tem. (ºC):**12-14ºC **Maximum RH (%):**47-80% **Minimum RH (%):**28-45% **Wind Direction:** Easterly **Cloud cover:** Clear sky **Wind speed:** 4-5 km/hr **Rainfall:** 00.0 mm	There are chances of moderate to light rainfall during the next 2 days. The maximum and minimum temperatures for the next 5 days may range for 28-30ºC and 13-15ºC. Maximum relative humidity is expected in the range of 61-94% and minimum may from 17-51%. Wind direction would be easterly with the wind speed of 4 km per hour. Partially clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **18.0 mm**
NDVI for Mizoram	 Agriculture vigour is moderate over most of the parts in North-Eastern states, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.
	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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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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			↓ 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. **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 %.
		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**		↓ 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

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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 *Oxalis comiculata.*
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/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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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: Lawngtlai **Period:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue:** 17th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	4	0	14	0
Max Temp (ºC)	30	28	30	28	30
Min Temp (ºC)	13	15	13	15	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	61	74	67	85	94
Min RH (%)	17	20	23	27	51
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. (ºC):25-27ºC
Minimum Tem. (ºC):12-14ºC
Maximum RH (%):47-80%
Minimum RH (%):28-45%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 4-5 km/hr

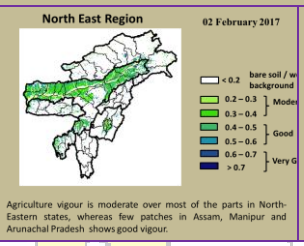
Rainfall: 00.0 mm

18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-30ºC a ni ang a. A vawh lai ber in 13-15ºC ni tura beisei a ni. RH san lai berin 61-94% leh a hniam lai berin 17-51% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **18.0mm**

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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei rannung lak atangin a veng thei bawk

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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/English **Date of issue:** 14th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	7	0	23	0
Max Temp (ºC)	31	28	30	27	29
Min Temp (ºC)	13	15	14	16	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	58	78	77	96	98
Min RH (%)	18	21	23	27	59
Wind Speed (KmpH)	4	4	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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. (ºC): 22-25ºC
Minimum Tem. (ºC): 12-13ºC
Maximum RH (%): 51-89%
Minimum RH (%): 27-44%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 4 km/hr

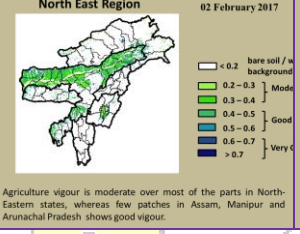
Rainfall: 00.0 mm

Weather forecast valid from 18th March, 2017 To 22th 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 27-31ºC and 13-16ºC. Maximum relative humidity is expected in the range of 58-98% and minimum may from 18-59%. 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: **30.0 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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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.
		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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			➢ 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. **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 %.
		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**		➢ 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

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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 *Oxalis comiculata.*
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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue:** 17th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	7	0	23	0
Max Temp (ºC)	31	28	30	27	29
Min Temp (ºC)	13	15	14	16	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	58	78	77	96	98
Min RH (%)	18	21	23	27	59
Wind Speed (KmpH)	4	4	2	4	4
*Wind Direction	E	E	E	E	E

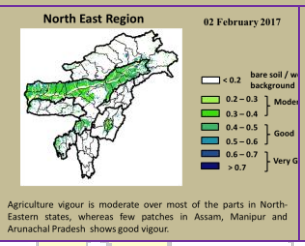
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

STATUS OF MONSOON- 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	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):22-25ºC **Minimum Tem. (ºC):**12-13ºC **Maximum RH (%):**51-89% **Minimum RH (%):**27-44% **Wind Direction:** Southeasterly **Cloud cover:** Clear sky **Wind Speed:** 4 km/hr **Rainfall:** 00.0 mm	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-31ºC a ni ang a. A vawh lai ber in 13-16ºC ni tura beisei a ni. RH san lai berin 58-98% leh a hniam lai berin 18-59% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **30.0mm**

NDVI for Mizoram



Agriculture vigour is moderate over most of the parts in North-Eastern states, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.

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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. - Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	- A than a that theih nan nikhat danah tui pek thin tur ani. - Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. - Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei 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:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/English **Date of issue:** 17th March, 2017

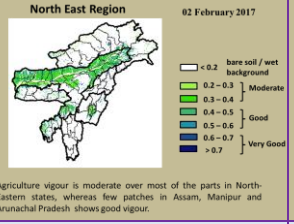
Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	10	7	18	0
Max Temp (ºC)	29	28	27	26	29
Min Temp (ºC)	14	15	17	16	15
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly clear	Clear sky
Max RH (%)	60	93	83	99	97
Min RH (%)	17	23	24	33	48
Wind Speed (KmpH)	4	4	3	2	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	Weather forecast valid from 18th March, 2017 To 22th March, 2017.
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):** 12-13ºC **Maximum RH (%):**55-91% **Minimum RH (%):**27-42% **Wind Direction:** southeasterly **Cloud cover:** Clear Sky **Wind speed:** 3-4 km/hr **Rainfall:** 00.0 mm	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 26-29ºC and 14-17ºC. Maximum relative humidity is expected in the range of 60-99% and minimum may from 17-48%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Partially clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **35.0 mm**

NDVI for Mizoram			
		Moderately wet mildly dry/mildly wet conditions
Main Crop/	**Stage**	**Cultural**	**Agricultural / Horticultural/ animal**

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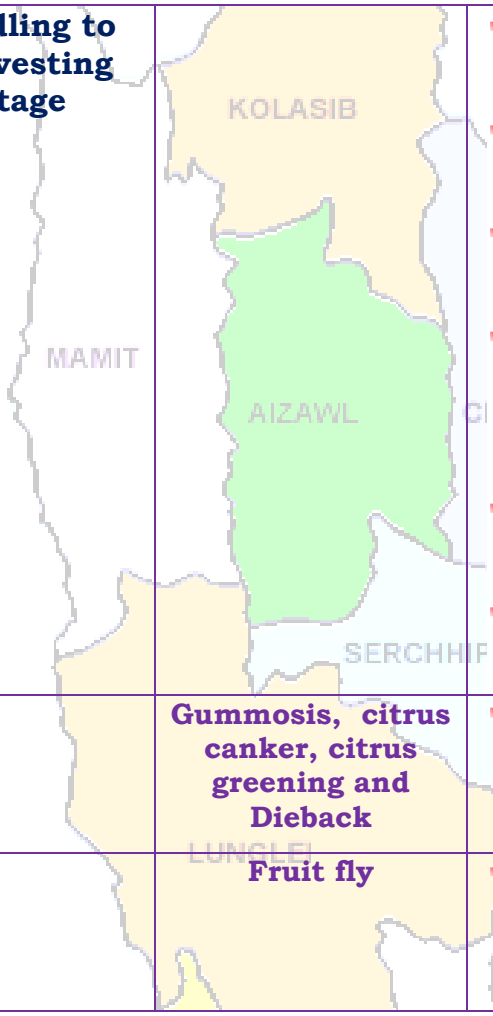
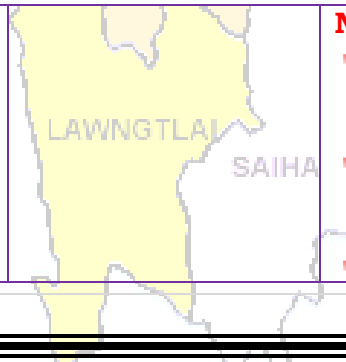
Animal /Fisheries		practices/ Pest/ Diseases	husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Seedling to Harvesting stage**		▪ Mulching should be done with dry grasses near the tree base to conserve soil moisture during winter. ▪ The young 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.
		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. ▪ Then they are covered with a thin layer

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			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
		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 %.
		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**		- 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**		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 *Oxalis comiculata.*
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. 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.
		Phytopthora 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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			✦ 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✦ 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 R_2B vaccine for adult birds. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✦ 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.
			✦ 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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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:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue:** 17th March, 2017

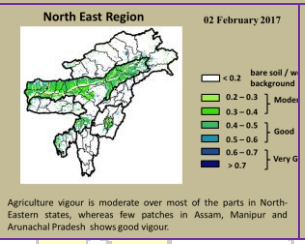
Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	10	7	18	0
Max Temp (ºC)	29	28	27	26	29
Min Temp (ºC)	14	15	17	16	15
Cloud Coverage	Clear sky	Partially clear	Partially clear	Mainly clear	Clear sky
Max RH (%)	60	93	83	99	97
Min RH (%)	17	23	24	33	48
Wind Speed (KmpH)	4	4	3	2	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	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):26-28ºC **Minimum Tem. (ºC):** 12-13ºC **Maximum RH (%):**55-91% **Minimum RH (%):**27-42% **Wind Direction:** southeasterly **Cloud cover:** Clear Sky **Wind speed:** 3-4 km/hr **Rainfall:** 00.0 mm	Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-29ºC a ni ang a. A vawh lai ber in 14-17ºC ni tura beisei a ni. RH san lai berin 60-99% leh a hniam lai berin 17-48% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **35.0mm**

NDVI for Mizoram		
	 Agriculture vigour is moderate over most of the parts in North-Eastern states, whereas few patches in Assam, Manipur and Arunachal Pradesh shows good vigour.	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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei 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: Saiha **Period:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/English **Date of issue:** 17th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	0	0	11	0
Max Temp (ºC)	30	31	31	28	29
Min Temp (ºC)	13	14	15	16	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	53	68	57	81	96
Min RH (%)	16	17	20	21	52
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. (ºC):24-26ºC
Minimum Tem. (ºC):12-14ºC
Maximum RH (%):46-80%
Minimum RH (%):25-44%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind Speed: 3-4 km/hr

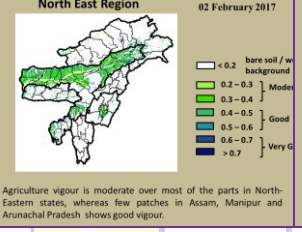
Rainfall: 00.0 mm

Weather forecast valid from 18th March, 2017 To 22th March, 2017.

There is chance of moderate to moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-31ºC and 13-16ºC. Maximum relative humidity is expected in the range of 53-96% and minimum may from 16-52%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **11.0 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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			↓ 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. **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 %.
		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**		↓ 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

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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 *Oxalis comiculata.*
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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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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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: 18 March – 22 March, 2017**

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue: 17th March, 2017**

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	0	0	11	0
Max Temp (ºC)	30	31	31	28	29
Min Temp (ºC)	13	14	15	16	14
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	53	68	57	81	96
Min RH (%)	16	17	20	21	52
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

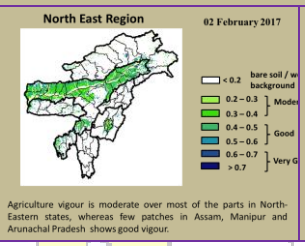
Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

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	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):24-26ºC **Minimum Tem. (ºC):**12-14ºC **Maximum RH (%):**46-80% **Minimum RH (%):**25-44% **Wind Direction:** Southeasterly **Cloud cover:** Clear sky **Wind Speed:** 3-4 km/hr **Rainfall:** 00.0 mm	Tun ni 1 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 28-31ºC a ni ang a. A vawh lai ber in 13-16ºC ni tura beisei a ni. RH san lai berin 53-96% leh a hniam lai berin 16-52% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **11.0mm**

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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei rannung lak atangin a veng thei bawk

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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 18 March – 22 March, 2017

Bulletin No: - 684/2016/ Bulletin/English **Date of issue:** 17th March, 2017

Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	4	0	23	3
Max Temp (ºC)	29	28	31	26	26
Min Temp (ºC)	14	16	15	17	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Clear sky
Max RH (%)	54	78	73	98	99
Min RH (%)	19	21	22	24	65
Wind Speed (KmpH)	4	4	2	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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. (ºC):21-24ºC
Minimum Tem. (ºC):12-14ºC
Maximum RH (%):59-94%
Minimum RH (%):24-45%
Wind Direction: southeasterly
Cloud cover: Clear sky
Wind speed: 2-4 km/hr

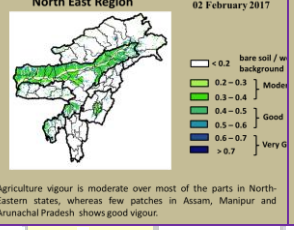
Rainfall: 00.0 mm

Weather forecast valid from 18th March, 2017 To 22th 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 26-31ºC and 14-17ºC. Maximum relative humidity is expected in the range of 54-99% and minimum may from 19-65%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **30.0 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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			↓ 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. **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 %.
		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**		↓ 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

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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 *Oxalis comiculata.*
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/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.
		Phytopthora 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 HUSBENDARY			
Pig	**All stages**		✦ As the weather gets colder, your pigs' energy requirement will increase, as they need more energy to keep warm. ✦ Regularly monitor their level of 'fitness' and increase their feed intake to maintain. ✦ Fish oils are excellent for providing slow-release energy with the added advantage of a high level of omega-3.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	**Swine fever.**	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
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**		✚ 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 R_2B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B_{12}
FISHERY			
	Pond preparation	**0-2th 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.
			✚ 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.
			✚ 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: Serchhip **Period: 18 March – 22 March, 2017**

Bulletin No: - 684/2016/ Bulletin/Mizo **Date of issue: 17th March, 2017**

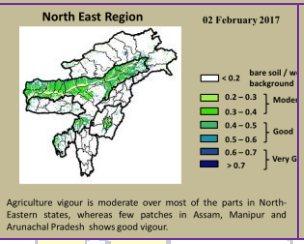
Parameters	18.03.2017	19.03.2017	20.03.2017	21.03.2017	22.03.2017
Rainfall (mm)	0	4	0	23	3
Max Temp (ºC)	29	28	31	26	26
Min Temp (ºC)	14	16	15	17	16
Cloud Coverage	Clear sky	Clear sky	Clear sky	Partially clear	Clear sky
Max RH (%)	54	78	73	98	99
Min RH (%)	19	21	22	24	65
Wind Speed (KmpH)	4	4	2	4	4
***Wind Direction**	E	E	E	E	E

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

STATUS OF MONSOON- 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	18th March– 22nd March, 2017 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):21-24ºC **Minimum Tem. (ºC):12-14ºC** **Maximum RH (%):59-94%** **Minimum RH (%):24-45%** **Wind Direction: southeasterly** **Cloud cover: Clear sky** **Wind speed: 2-4 km/hr** **Rainfall: 00.0 mm**	Tun ni 2 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-31ºC a ni ang a. A vawh lai ber in 14-17ºC ni tura beisei a ni. RH san lai berin 54-99% leh a hniam lai berin 19-65% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 30.0mm**

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 **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**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 tawk 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.
		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 *Azospirillum* leh *Phosphobacterium 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 laiin 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 fimkhhur 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 tawk vel viau ani. A chi tuh hma in lei leh FYM @5-10 t/ha leh 80:60:40 kg N, P_2O_5 leh

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			K_2O/ha pawlh chu hman phawt tur a ni. Nitrogen dose chanve chu a chi tuh hunlaia hman tur a ni a, tichuan a bang 25% chu thla khat hnu ah ani ang a adang leh 25% chu a par hunah hman tur a ni.
Soybean, pea, lentil toria, breen gram and black gram cultivation in rice fellow	**All stage**	**Zero tillage**	✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Lei rih vur hian thlai kung te a veng ve ani. ✦ Thlasik lai a lei khoro lutuk tur ven nan a chungah hnim leh thildanga khuh tur ani.
Potato	**Sowing stage**		✦ Muangchang loving alu chin na tur chu buatsaih vat tur ani. ✦ Hei hian a than hun laiin natna hrikin lakah a veng dawn ani. ✦ Lei leh hmain a hmun hma chu fai taka thlawh hmasak tur ani. ✦ A chi thlak hma in a chi chu en fiah hmasak tur ani. ✦ A than a that theih nan nikhat danah tui pek thin tur ani.
VEGETABLE CROP			
Tomato	**Bacterial Blight disease**		✦ Tomato bikah chuan sik leh sa hi natna an kaina tlang lawn ber ani . ✦ Hmun hnawng leh ni hmu lo lutuk hmunah chuan natna an kai hma bik ani. ✦ Tomato hi a uai a, a thih mai loh nan Ridomil emaw Indofil emaw Mancozeb @ 2 gm hi tui liter 1 ah pawlh a kah tur ani .
Early Cole crop	**Black spot disease**		✦ A than a that theih nan nikhat danah tui pek thin tur ani. ✦ Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. ✦ Zikhlum lam chi ah chuan sik leh sa vangin a hnah ah thil dum rawn

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			awm thin a , hei hi natna tlanglawn ber ani. Thlai hna lam chi leh zikhlum lam chi reng reng enkawl nan Mancozeb @ 2gm ah tui leter 1 pawlha kah tur ani.
Onion and capsicum	**Nursery stage**	**Poly house**	A than a that theih nan nikhat danah tui pek thin tur ani. Thlai bul vawn hnawn nana thlai bula hnim ring vawm khawm hi tui pek zawhah dah tur ani. Thlai chhina hmun (nursery) hi hnim a to loh nan Pendimethalin @ 3.5ml hi tui liter 1 zelah pawlh a kah hi a tha hle ani.
		Phytopthora 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 HUSBENDARY			
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 chhunzawm 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 chhunzawm tur ani.
	Young stage	**Black Quarter (BQ)**	• Black Quarter Vaccine (BQV). ❖ Vaccinne hmasa ber hi thla 6 ah emaw a hnu lamah pek tur. ❖ Chumi hnuah chuan Vaccine hi kum tin pek tur ani.
Poultry	**Litter management**		✚ Ar te hian hmun thawl nuam tawk, chaw tha an mamawh tawk leh tui thianghlim an mamawh tawk an hmu tur ani a. ✚ An hriselna atan enkawlna 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	**0-3 rd week**	✦ **Ranikhet** Disease- an pian atanga ni 1-6 ah F1 vaccine pek tur ani a, chuan a puitlingh chuan R_2B vaccine pek tur ani. ✦ B complex with antibodies
		4th weeks	✦ **Coccidiosis-** Amprolium or coccidiostat
		4-5th Weeks	✦ Calcium tonic fortified with B_{12}
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 tibuaithei rannung lak atangin a veng thei bawk

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