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: 26 January – 30 January, 2018**

Bulletin No: - 765/2018/ Bulletin/English **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	26	27	30	30	25
Wind Speed (KmpH)	3	4	2	2	3
*Wind Direction	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):18-21ºC
Minimum Tem. (ºC):08-10ºC
Maximum RH (%):79-86%
Minimum RH (%):42-56%
Wind Direction: southeasterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

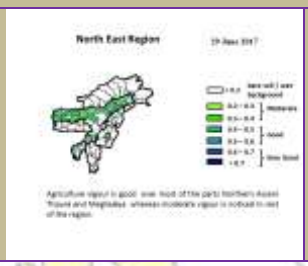
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 10-11ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 25-30%. Wind direction would be easterly to southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Harvesting stage**		➢ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ➢ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ➢ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ➢ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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		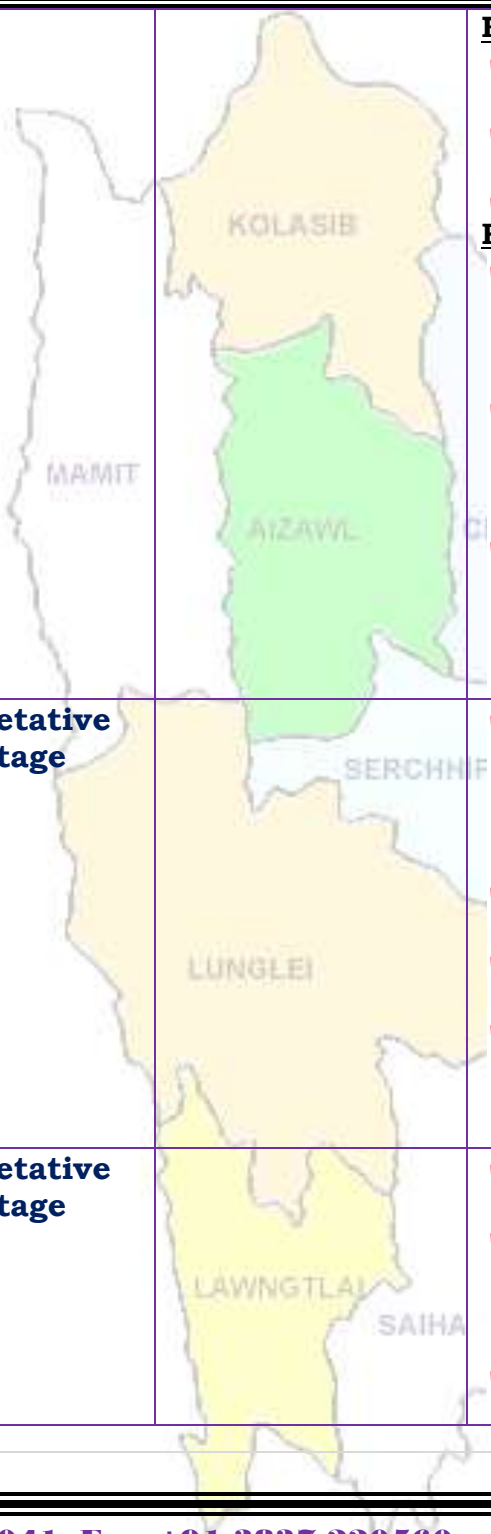	**Replanting of new seedling** • Medium to young seedling should be support by bamboo stake. • Replace dead plant with young seedlings. • Fertilizer dose should be maintained. **Fruiting stage** • Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. • Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. • Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		• According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. • Farmers can go for tapping upto last week of January. • Make fire line around the field to save from fire. • Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		• Possibility of rain will be very less. So provide water every alternate day. • Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. • Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed - 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	26	27	30	30	25
Wind Speed (KmpH)	3	4	2	2	3
*Wind Direction	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):18-21ºC
Minimum Tem. (ºC):08-10ºC
Maximum RH (%):79-86%
Minimum RH (%):42-56%
Wind Direction: southeasterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

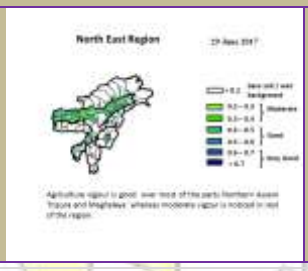
Rainfall: 00.0 mm

26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 25-30% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



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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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 26 January – 30 January, 2018**

Bulletin No: - 765/2018/ Bulletin/English **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	15	17	28	24	23
Wind Speed (KmpH)	3	4	3	3	3
*Wind Direction	E	S-E	S-E	S-E	E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):19-22ºC
Minimum Tem. (ºC): 08-09ºC
Maximum RH (%):75-81%
Minimum RH (%):42-56%
Wind Direction: Southeasterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

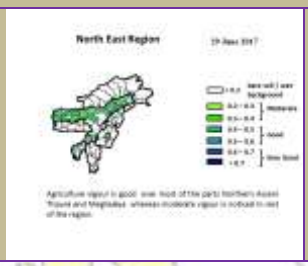
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 27ºC and 10-11ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 15-28%. Wind direction would be easterly to southeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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			**Replanting of new seedling** - Medium to young seedling should be support by bamboo stake. - Replace dead plant with young seedlings. - Fertilizer dose should be maintained. **Fruiting stage** - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Farmers can go for tapping upto last week of January. - Make fire line around the field to save from fire. - Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY			
	Monitoring of fish in pond		Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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		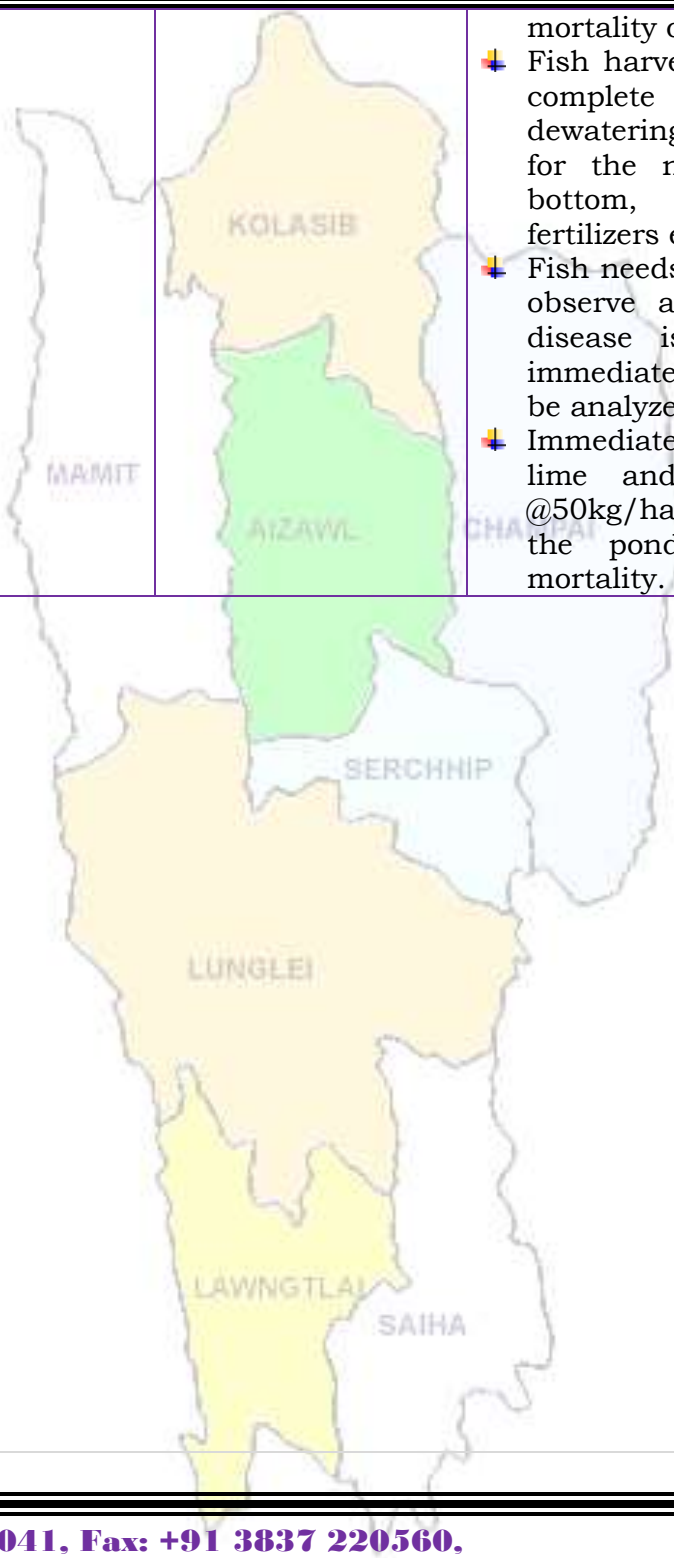	mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Champhai **Period: 26 January – 30 January, 2018**

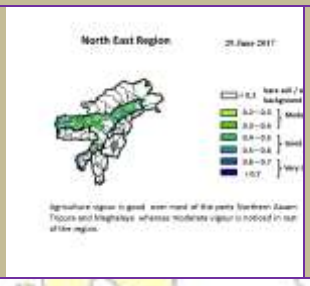
Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	15	17	28	24	23
Wind Speed (KmpH)	3	4	3	3	3
*Wind Direction	E	S-E	S-E	S-E	E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days	26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):19-22ºC **Minimum Tem. (ºC): 08-09ºC** **Maximum RH (%):75-81%** **Minimum RH (%):42-56%** **Wind Direction: Southeasterly** **Cloud cover: Clear sky** **Wind speed: 1-2 km/hr** **Rainfall: 00.0 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27ºC a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin of 100% leh a hniam lai berin 15-28% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Kolasib **Period: 26 January – 30 January, 2018**

Bulletin No: - 765/2018/ Bulletin/English **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	27	27	27	27
Min Temp (ºC)	12	12	12	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	34	33	32	34	27
Wind Speed (KmpH)	3	4	2	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC): 24-25ºC
Minimum Tem. (ºC):11-14ºC
Maximum RH (%):76-82%
Minimum RH (%):51-64%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

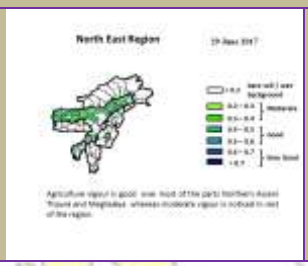
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 11-12ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 27-34%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



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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**	**Harvesting stage**		➢ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ➢ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ➢ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ➢ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		➢ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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			**Replanting of new seedling** - Medium to young seedling should be support by bamboo stake. - Replace dead plant with young seedlings. - Fertilizer dose should be maintained. **Fruiting stage** - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Farmers can go for tapping upto last week of January. - Make fire line around the field to save from fire. - Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			↓ The plants are-cut close to the ground. ↓ The crop is irrigated lightly for easy digging. ↓ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ↓ Fingers are separated from mother rhizomes. ↓ Wash clumps of rhizomes with water and keep it for sundry. ↓ Seed stock will be store from partially dry sample. ↓ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		↓ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ↓ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ↓ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	↓ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ↓ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ↓ Provide irrigation if water is require.
			↓ 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	**Vegetative stage**		↓ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ↓ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY			
	Monitoring of fish in pond		Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: 26 January – 30 January, 2018**

Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	27	27	27	27
Min Temp (ºC)	12	12	12	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	34	33	32	34	27
Wind Speed (KmpH)	3	4	2	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC): 24-25ºC
Minimum Tem. (ºC):11-14ºC
Maximum RH (%):76-82%
Minimum RH (%):51-64%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

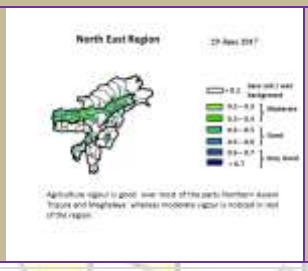
Rainfall: 00.0 mm

26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 11-12ºC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 27-34% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: Lawngtlai **Period:** 26 January – 30 January, 2018

Bulletin No: - 765/2018/ Bulletin/English **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	28	28
Min Temp (ºC)	11	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	95	96	94	87
Min RH (%)	32	28	30	32	26
Wind Speed (KmpH)	3	4	2	2	4
*Wind Direction	E	E	N-E	N-E	N-E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):22-23ºC
Minimum Tem. (ºC):11-14ºC
Maximum RH (%):84-89%
Minimum RH (%):38-49%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

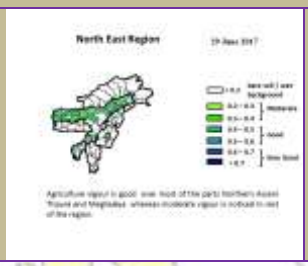
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-25ºC and 8-10ºC. Maximum relative humidity is expected in the range of 94-98% and minimum may from 28-42%. Wind direction would be easterly to northeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



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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**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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		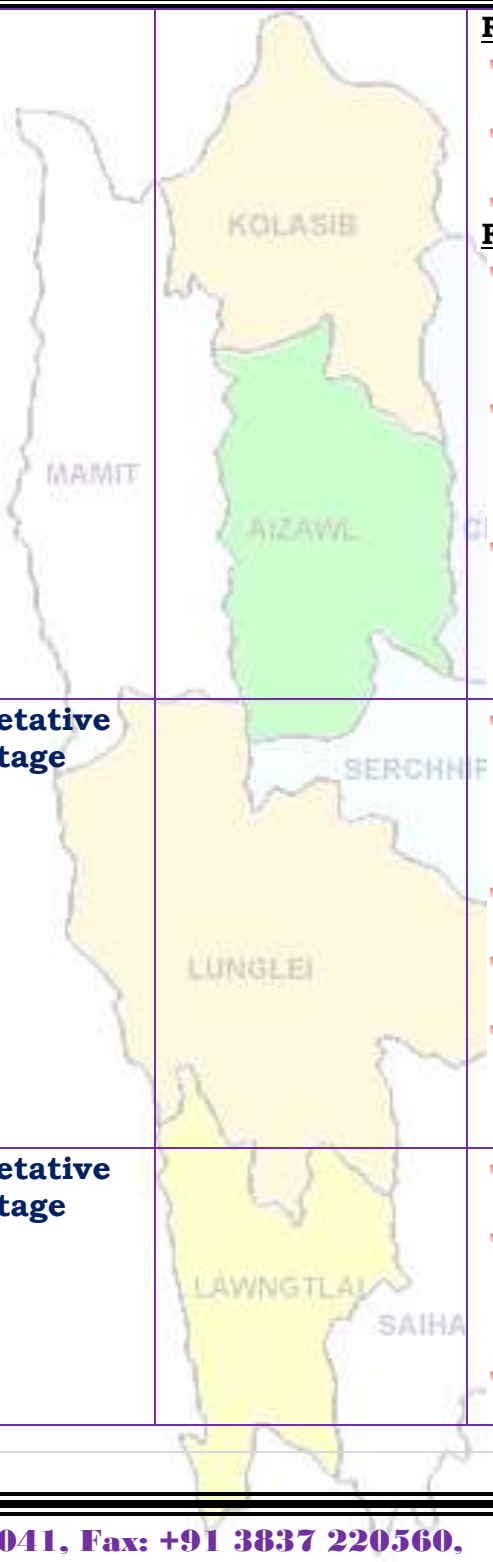	**Replanting of new seedling** • Medium to young seedling should be support by bamboo stake. • Replace dead plant with young seedlings. • Fertilizer dose should be maintained. **Fruiting stage** • Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. • Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. • Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		• According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. • Farmers can go for tapping upto last week of January. • Make fire line around the field to save from fire. • Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		• Possibility of rain will be very less. So provide water every alternate day. • Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. • Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY			
	Monitoring of fish in pond		Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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:** 26 January – 30 January, 2018

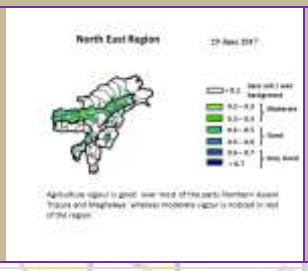
Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	27	28	28
Min Temp (ºC)	11	12	12	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	95	95	96	94	87
Min RH (%)	32	28	30	32	26
Wind Speed (KmpH)	3	4	2	2	4
*Wind Direction	E	E	N-E	N-E	N-E

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

Status of Post Monsoon- October 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 283.0mm (44.8mm)	Champhai- 0.00mm (35.9mm)	Saiha- 57.9 mm (64.0mm)	Kolasib- 50.0mm (34.8mm)
Lawngtlai-135.3mm (54.1mm)	Lunglei-130.3mm (33.7mm)	Mamit-231.0mm (17.9mm)	Serchhip-234.8mm (56.3mm)

Weather summary of the past three days	26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):22-23ºC **Minimum Tem. (ºC):**11-14ºC **Maximum RH (%):**84-89% **Minimum RH (%):**38-49% **Wind Direction:** Easterly **Cloud cover:** Clear sky **Wind speed:** 1-2 km/hr **Rainfall:** 00.0 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 24-25ºC a ni ang a. A vawh lai ber in 8-10ºC ni tura beisei a ni. RH san lai berin 94-98% leh a hniam lai berin 28-42% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 26 January – 30 January, 2018**

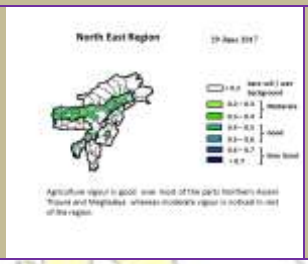
Bulletin No: - 765/2018/ Bulletin/English **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	26	26	28	28	23
Wind Speed (KmpH)	4	4	2	2	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days	Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.
Maximum Tem. (ºC):17-20ºC **Minimum Tem. (ºC):**08-10ºC **Maximum RH (%):**76-85% **Minimum RH (%):**38-82% **Wind Direction:** Easterly **Cloud cover:** Clear sky **Wind speed:** 1-2 km/hr **Rainfall:** 00.0 mm	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 10-11ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 23-28%. 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:*** **00.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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			**Replanting of new seedling** • Medium to young seedling should be support by bamboo stake. • Replace dead plant with young seedlings. • Fertilizer dose should be maintained. **Fruiting stage** • Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. • Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. • Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		• According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. • Farmers can go for tapping upto last week of January. • Make fire line around the field to save from fire. • Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		• Possibility of rain will be very less. So provide water every alternate day. • Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. • Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed - 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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

District: Lunglei **Period: 26 January – 30 January, 2018**

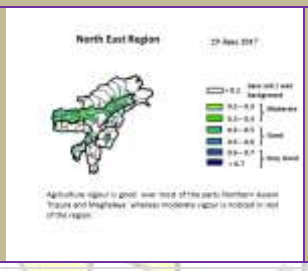
Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	25	26	26	26
Min Temp (ºC)	12	12	12	12	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	90	88	100	100	100
Min RH (%)	39	33	27	25	26
Wind Speed (KmpH)	3	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days	26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):17-20ºC **Minimum Tem. (ºC):08-10ºC** **Maximum RH (%):76-85%** **Minimum RH (%):38-82%** **Wind Direction: Easterly** **Cloud cover: Clear sky** **Wind speed: 1-2 km/hr** **Rainfall: 00.0 mm**	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 23-28% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:* 00.0mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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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: 26 January – 30 January, 2018**

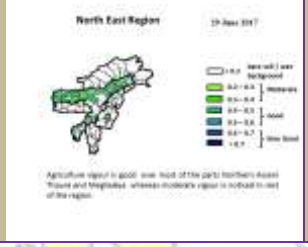
Bulletin No: - 765/2018/ Bulletin/English **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	27	27	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	29	29	30	30	26
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	E	S-E	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days	Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.
Maximum Tem. (ºC):25-26ºC **Minimum Tem. (ºC): 12-13ºC** **Maximum RH (%):76-82%** **Minimum RH (%):52-70%** **Wind Direction: Easterly** **Cloud cover: Clear sky** **Wind speed: 1-2 km/hr** **Rainfall: 00.0 mm**	There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 10-11ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 26-30%. Wind direction would be easterly to southeasterly to easterly and southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:* 00.0 mm**
NDVI for Mizoram	 Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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			**Replanting of new seedling** • Medium to young seedling should be support by bamboo stake. • Replace dead plant with young seedlings. • Fertilizer dose should be maintained. **Fruiting stage** • Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. • Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. • Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		• According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. • Farmers can go for tapping upto last week of January. • Make fire line around the field to save from fire. • Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		• Possibility of rain will be very less. So provide water every alternate day. • Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. • Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. Separate sick animals. The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		Provide preventive dose of anti-coccidial drugs to poultry. Proper ventilation of shed. Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water Avoid overcrowding. Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. Remove wet litter.
FISHERY			
	Monitoring of fish in pond		Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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: 26 January – 30 January, 2018**

Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue: 25th January, 2018**

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	27	27	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	29	29	30	30	26
Wind Speed (KmpH)	2	4	2	2	2
*Wind Direction	E	S-E	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 Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):25-26ºC
Minimum Tem. (ºC): 12-13ºC
Maximum RH (%):76-82%
Minimum RH (%):52-70%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

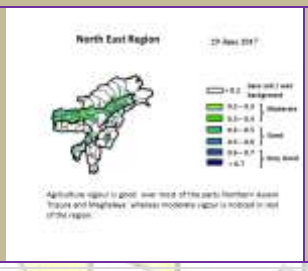
Rainfall: 00.0 mm

26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 10-11ºC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 26-30% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Saiha **Period:** 26 January – 30 January, 2018

Bulletin No: - 765/2018/ Bulletin/English **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	11	11	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	97	92	99	74
Min RH (%)	22	22	24	26	20
Wind Speed (KmpH)	4	4	3	3	4
*Wind Direction	E	E	E	E	N-E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):21-23ºC
Minimum Tem. (ºC):10-13ºC
Maximum RH (%):81-90%
Minimum RH (%):43-54%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 0-2 km/hr

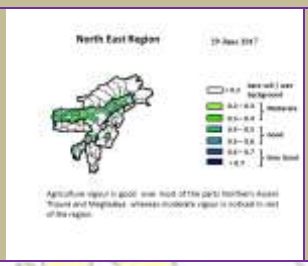
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 26-27ºC and 10-12ºC. Maximum relative humidity is expected in the range of 74-99% and minimum may from 20-26%. Wind direction would be easterly to northeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



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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**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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		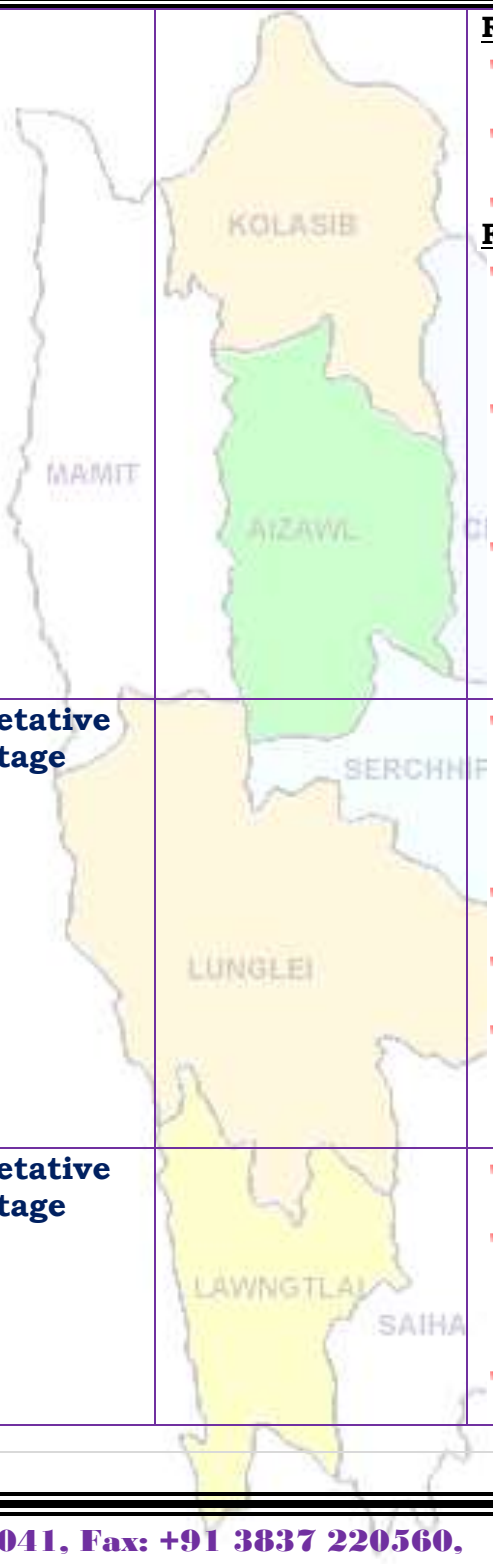	**Replanting of new seedling** - Medium to young seedling should be support by bamboo stake. - Replace dead plant with young seedlings. - Fertilizer dose should be maintained. **Fruiting stage** - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Farmers can go for tapping upto last week of January. - Make fire line around the field to save from fire. - Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			✦ The plants are-cut close to the ground. ✦ The crop is irrigated lightly for easy digging. ✦ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ✦ Fingers are separated from mother rhizomes. ✦ Wash clumps of rhizomes with water and keep it for sundry. ✦ Seed stock will be store from partially dry sample. ✦ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	✦ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ✦ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ✦ Provide irrigation if water is require.
			✦ 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	**Vegetative stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed - 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. - Separate sick animals. - The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. - Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		- Provide preventive dose of anti-coccidial drugs to poultry. - Proper ventilation of shed. - Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water - Avoid overcrowding. - Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. - Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. - Remove wet litter.
FISHERY			
	Monitoring of fish in pond		- Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. - Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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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:** 26 January – 30 January, 2018

Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	11	11	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	97	92	99	74
Min RH (%)	22	22	24	26	20
Wind Speed (KmpH)	4	4	3	3	4
*Wind Direction	E	E	E	E	N-E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):21-23ºC
Minimum Tem. (ºC):10-13ºC
Maximum RH (%):81-90%
Minimum RH (%):43-54%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 0-2 km/hr

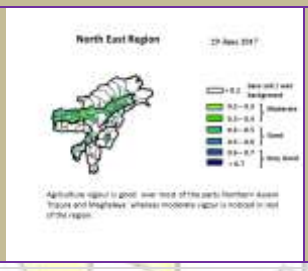
Rainfall: 00.0 mm

26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-27ºC a ni ang a. A vawh lai ber in 10-12ºC ni tura beisei a ni. RH san lai berin of 74-99% leh a hniam lai berin 20-26% ni tur a rin niin. Thli hi darkar khatah 3-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 26 January – 30 January, 2018

Bulletin No: - 765/2018/ Bulletin/English **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
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Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	19	22	27	26	23
Wind Speed (KmpH)	3	4	2	0	2
*Wind Direction	E	E	E	E	N-E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC):21-24ºC
Minimum Tem. (ºC):11-13ºC
Maximum RH (%):84-89%
Minimum RH (%):51-61%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

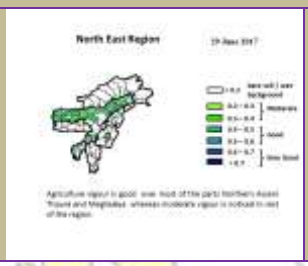
Rainfall: 00.0 mm

Weather forecast valid from 26th January, 2018 To 30thJanuary, 2018.

There are no chances of rainfall during the next 5 days. The maximum and minimum temperatures for the next 5 days may range for 25-26ºC and 8-10ºC. Maximum relative humidity is expected in the range of 100% and minimum may from 19-27%. Wind direction would be easterly to northeasterly with the wind speed of 0-3 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: **00.0 mm**

NDVI for Mizoram



Mildly dry condition occurs in all districts of Mizoram.

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **BANANA** **STAR FRUIT** **PLUM AND PEACH**	**Harvesting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. ✦ First harvest can be done 5 to 6 years after planting. ❖ Fruits are harvested when they attain full size, develop attractive colour from green to yellow with optimum sugar and acid blend. ❖ Fruits should be harvested preferably with clipper, shears or secateurs. Oranges should not be harvested in wet weather or during rains. ✦ Green or fully ripe fruits can be stored in evaporative cool chamber at 8-10^{0}C & 90-95% relative humidity for a period of three weeks after post-harvest treatment with Bavistin (1000 ppm.). ✦ Diseased and senile branches should be removed.
		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.
		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.
PLANTATION CROP			
COFFEE	**Fruiting stage**		✦ According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss.

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			**Replanting of new seedling** - Medium to young seedling should be support by bamboo stake. - Replace dead plant with young seedlings. - Fertilizer dose should be maintained. **Fruiting stage** - Foliar application of Mepiquat chloride @ 1000 PPM concentration or 0.75% SSP @ 1.5 g per 200 lt of water 15 days interval. - Spray lantana camera leaf paste around 3 kg/16 lt water which will give effective control against drought condition. - Due to high humidity, high temperature and less rainfall in hilly region of the district probability of rust will be high. So apply Hexaconazole @ 1 ml/10 lt of water.
Rubber	**Vegetative stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Farmers can go for tapping upto last week of January. - Make fire line around the field to save from fire. - Dig a pit (size 1.5 ft X 1.0 ft X 1.0 ft) between 4 plants. Store dried leaves in the pit and after 4 months it can use as manure.
Strawberry	**Vegetative stage**		- Possibility of rain will be very less. So provide water every alternate day. - Possibility to occurrence of Powdery mildew will be high so apply any sulpher based fungicide to reduce disease incidence. - Weeding should to do properly with proper fertilizer use.

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CEREALS AND PULSE CROPS			
Rabi Maize	**Tassle formation stage**		▪ Irrigation should be provide 3 days interval ▪ Apply 2% urea solution for better growth. ▪ Weeding should be carried out. ▪ Provide irrigation twice in a week or grow any cover crop in surface of the soil. ▪ Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Soybean cultivation in *Jhum*	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Collection and destruction of damage plant or plant part and spraying of any systemic insecticide @ 2ml/lit should be done. ▪ Apply 2% urea solution to avoid stress condition.
Zero tillage Toria	**Flowering stage**	**Zero tillage**	▪ Possibility of rain will be very less. So provide water every alternate day. ▪ Apply split dose of fertilizer for better growth. ▪ Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. ▪ Apply split dose of fertilizer for better growth.
VEGETABLE CROP			
Ginger and turmeric	**Harvesting stage**		▪ Turmeric and ginger is harvested when leaves start yellowing and ultimately the stem dries down.

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			↓ The plants are-cut close to the ground. ↓ The crop is irrigated lightly for easy digging. ↓ Harvesting consists of digging of underground clumps of rhizomes with pick axe or digging fork. ↓ Fingers are separated from mother rhizomes. ↓ Wash clumps of rhizomes with water and keep it for sundry. ↓ Seed stock will be store from partially dry sample. ↓ Cut the rhizome to small pieces for proper drying.
Early cole crop	**Vegetative stage**		↓ According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. ↓ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ↓ Remaining quantity of nitrogen is applied 30-40 days after transplanting.
Onion	**Vegetative stage**	**Poly house**	↓ Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. ↓ Remaining quantity of nitrogen is applied 30-40 days after transplanting. ↓ Provide irrigation if water is require.
			↓ 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	**Vegetative stage**		↓ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ↓ Intercultural operations should be done regularly to keep the crop free from

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			weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after sowing.
Capsicum	**Transplant stage**	**Poly house**	- Intercultural operations should be done regularly to keep the crop free from weeds and aeration of the root system. - Remaining quantity of nitrogen is applied 30-40 days after transplanting. - Provide irrigation if water is require.
Brinjal	**Fruiting to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant.
Chilli	**Vegetative to flowering stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Apply split dose of nitrogenous fertilizer to the plant. - Staking should be done.
Tomato	**Transplant stage**		- According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Interculture operation should be done near to the base of the plant. - Fertilizer application in split dose of recommended dose. - Staking should be done for better fruit growth.
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g

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			(Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Potato	**Vegetative stage**		- Earthing up should be done near to the plant for better growth of tubers and avoid greening of tuber. - According to forecast and past weather record, there is no probability of rainfall. So weekly twice irrigation is required for upcoming week or use straw mulch reduces soil water loss. - Apply split dose of nitrogenous fertilizer.
ANIMAL HUSBENDARY			
Pig	**All stages**		- Animals must keep in dry place or kept in alleviated area and dry bedding (straw) to be provided to young animals. - 1st injection at 6 months of age and 2nd injection at 12 months of age followed by annual vaccination under vet supervision against FMD. - Reduce concentrate diet up to 5%. - Provide adequate potable water. - In present weather conditions vaccinate against swine fever (Vaccines available in State Veterinary Departs)
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
Cattle	**All age group**		- In present weather conditions, special care should be taken against attack of maggots in the wounds of animals. Application of turpentine oil in the wounds followed by application of antibiotics for five days is advised. - Provide UMB/Molases if possible in the feed - Provide 10-30 ml of vitamin B-Complex

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			in feed ➢ 1st injection at 6-8 weeks of age, 2nd injection after 6 months of 1st injection followed by annual vaccination under vet supervision. ➢ Separate sick animals. ➢ The animal should be washed with lukewarm water added with little potash (KMnO4) or neem leaves. ➢ Long hair near the udder/stomach/back legs should be teamed short.
Poultry	**All age group**		➢ Provide preventive dose of anti-coccidial drugs to poultry. ➢ Proper ventilation of shed. ➢ Provide glucose/electral along with vitamin supplements (@5- 6ml/100 birds) with adequate potable water ➢ Avoid overcrowding. ➢ Provide broad-spectrum antihelminthic drugs under vet supervision and recommended doses. ➢ Vaccination as per the schedule with proper consultation with vet. ➢ Day old chick: HVT Marek disease vaccine, 4-7 days:¬ F/Lasota, 14-18 days: Intermediate plus/IBD vaccine, 35 days: F/Lasota, 6-7 weeks: Chicken embryo adopted fowl pox vaccine and 56-70 days: RD R-2B strain. ➢ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		➢ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ➢ Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to

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			mortality of fish. - Fish harvesting may be carried out by complete dewatering of pond. After dewatering, the pond may be prepared for the next cycle by sundrying of bottom, applying lime, manure, fertilizers etc. - Fish needs to be monitored regularly to observe any sign of diseases and if disease is observed, consult expert immediately and water sample needs to be analyzed. - Immediate measure of application of lime and potassium permanganate @50kg/ha and 1.5mg/l respectively in the pond helps in avoiding fish mortality.

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GRAMIN KRISHI MAUSAM SEWA

ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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

District: Serchhip **Period:** 26 January – 30 January, 2018

Bulletin No: - 765/2018/ Bulletin/Mizo **Date of issue:** 25th January, 2018

Parameters	26.01.2018	27.01.2018	28.01.2018	29.01.2018	30.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	27	27	26	27	27
Min Temp (ºC)	10	10	10	11	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	19	22	27	26	23
Wind Speed (KmpH)	3	4	2	0	2
*Wind Direction	E	E	E	E	N-E

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

Status of Post Monsoon- December 1-31, 2017 (*Percent of deviation from normal in parenthesis*)

Aizawl- 18.1mm (11.6mm)	Champhai- 12.00mm (12.1mm)	Saiha- 13.9 mm (10.0mm)	Kolasib- 21.4mm (14.4mm)
Lawngtlai-06.4mm (07.1mm)	Lunglei-07.4mm (08.7mm)	Mamit-24.3mm (09.6mm)	Serchhip-17.7mm (12.9mm)

Weather summary of the past three days

Maximum Tem. (ºC): 21-24ºC
Minimum Tem. (ºC): 11-13ºC
Maximum RH (%): 84-89%
Minimum RH (%): 51-61%
Wind Direction: Easterly
Cloud cover: Clear sky
Wind speed: 1-2 km/hr

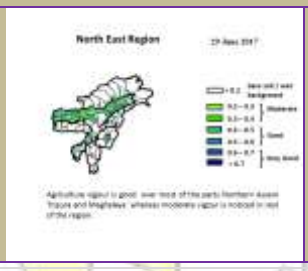
Rainfall: 00.0 mm

26th January – 30th January, 2018 chhunga sik leh sa dinhmun tur tlangpui

Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 25-26ºC a ni ang a. A vawh lai ber in 8-10ºC ni tura beisei a ni. RH san lai berin 100% leh a hniam lai berin 19-27% ni tur a rin niin. Thli hi darkar khatah 0-3 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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			
	Monitoring (Sangha enkawl)		✦ Sangha te hi chaw a hmuar kai lo chauh pek thin tur ani. Sangha chaw a lo hmuar anih chuan pek hma in ni sa a phoro phawt tur ani. ✦ Sangha chaw hi a hmuar lohna turin hmun ro leh uap lutuk lo ah dahthat tur ani a, hmuar atang a tur lo inseam thin, aflatoxin avang a sangha thi lak atangin sangha a him phah thin. ✦ Dil sah kang veka sangha man thin hian a kumleh a sangha khawinan a dil buatsaih a ti awlsam a, dil mawng phoro, chinai phul, leitha hman leh tul dang in dil buatsaih tur ani. ✦ Sangha te natna lak atangin an him em tih enfiah fo a tha a, natna hmuh anih chuan mithiam te rawn vat a, diltui enfiah vat tur ani. ✦ A ranglam a chinai @50kg/ha leh tuisen @1.5mg/l diltui a hman hian sangha natna avang a thi tur lak atangin a veng thei.

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