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: 06 December – 10 December, 2018**

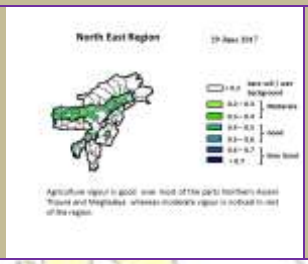
Bulletin No: - 760/2018/ Bulletin/English **Date of issue: 05th January, 2018**

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	24	23	23	23
Min Temp (ºC)	6	5	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	92	100	88	99	95
Min RH (%)	34	33	31	28	24
Wind Speed (KmpH)	2	2	2	3	3
***Wind Direction**	E	E	E	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 06th January, 2018 To 10thJanuary, 2018.
Maximum Tem. (ºC):15-16ºC **Minimum Tem. (ºC):**09-10ºC **Maximum RH (%):**94-99% **Minimum RH (%):**74-88% **Wind Direction:** southeasterly **Cloud cover:** Partially clear **Wind speed:** 0-2 km/hr **Rainfall:** 06.3 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 23-25ºC and 4-6ºC. Maximum relative humidity is expected in the range of 88-100% and minimum may from 24-34%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

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			day
			✦ 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	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ 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.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

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			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 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

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			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 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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District: Aizawl **Period: 06 December – 10 December, 2018**

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue: 05th January, 2018**

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	24	23	23	23
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Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
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*Wind Direction	E	E	E	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)
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Weather summary of the past three days

Maximum Tem. (ºC):15-16ºC
Minimum Tem. (ºC):09-10ºC
Maximum RH (%):94-99%
Minimum RH (%):74-88%
Wind Direction: southeasterly
Cloud cover: Partially clear
Wind speed: 0-2 km/hr

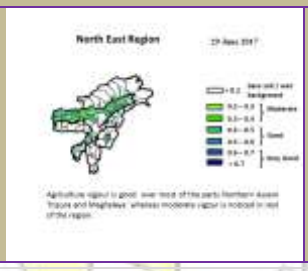
Rainfall: 06.3 mm

06th January – 10th 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 23-25ºC a ni ang a. A vawh lai ber in 4-6ºC ni tura beisei a ni. RH san lai berin 88-100% leh a hniam lai berin 24-34% ni tur a rin niin. Thli hi darkar khatah 2-3 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



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: Champhai **Period: 06 December – 10 December, 2018**

Bulletin No: - 760/2018/ Bulletin/English **Date of issue: 05th January, 2018**

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	24	23	23	23
Min Temp (ºC)	6	5	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	90	88	90	87	90
Min RH (%)	24	25	21	16	12
Wind Speed (KmpH)	3	2	2	5	4
*Wind Direction	S-E	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):17-19ºC
Minimum Tem. (ºC):10-12ºC
Maximum RH (%):95-100%
Minimum RH (%):81-89%
Wind Direction: Southeasterly
Cloud cover: Partially clear
Wind speed: 0-2 km/hr

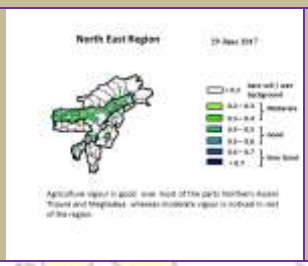
Rainfall: 05.6 mm

Weather forecast valid from 06th January, 2018 To 10thJanuary, 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 23-25ºC and 4-6ºC. Maximum relative humidity is expected in the range of 87-90% and minimum may from 12-25%. Wind direction would be southerly to easterly and southeasterly with the wind speed of 2-5 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field. ✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
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 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.

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			✓ 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 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: Champhai **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
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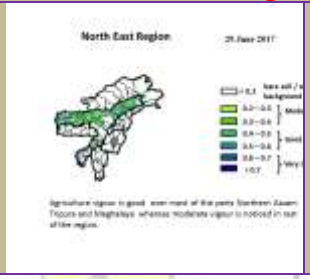
Wind Speed (KmpH)	3	2	2	5	4
*Wind Direction	S-E	E	E	S-E	S-E

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	06th January – 10th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 17-19ºC **Minimum Tem. (ºC):** 10-12ºC **Maximum RH (%):** 95-100% **Minimum RH (%):** 81-89% **Wind Direction:** Southeasterly **Cloud cover:** Partially clear **Wind speed:** 0-2 km/hr **Rainfall:** 05.6 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-25ºC a ni ang a. A vawh lai ber in 4-6ºC ni tura beisei a ni. RH san lai berin of 87-90% leh a hniam lai berin 12-25% ni tur a rin niin. Thli hi darkar khatah 2-5 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***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: 06 December – 10 December, 2018**

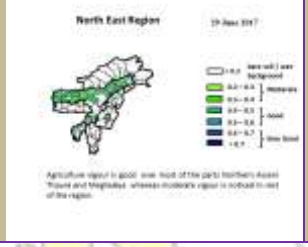
Bulletin No: - 760/2018/ Bulletin/English **Date of issue: 05th January, 2018**

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	23
Min Temp (ºC)	11	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	92	100	88	90
Min RH (%)	44	40	36	34	32
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	S-E	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 06th January, 2018 To 10thJanuary, 2018.
Maximum Tem. (ºC):20-26ºC **Minimum Tem. (ºC):**10-15ºC **Maximum RH (%):**92-98% **Minimum RH (%):**73-85% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 0-2 km/hr **Rainfall:** 08.3 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 23-25ºC and 9-11ºC. Maximum relative humidity is expected in the range of 90-100% and minimum may from 32-44%. Wind direction would be 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

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			day
			✦ 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	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ 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.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

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			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 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

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			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 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: Kolasib **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	23
Min Temp (ºC)	11	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	92	100	88	90
Min RH (%)	44	40	36	34	32
Wind Speed (KmpH)	2	2	2	3	4
*Wind Direction	S-E	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):20-26ºC
Minimum Tem. (ºC):10-15ºC
Maximum RH (%):92-98%
Minimum RH (%):73-85%
Wind Direction: Easterly
Cloud cover: Partially clear
Wind speed: 0-2 km/hr

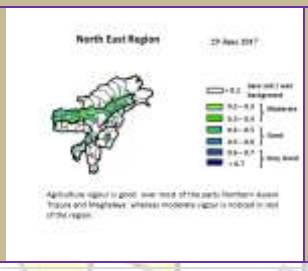
Rainfall: 08.3 mm

06th January – 10th 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 23-25ºC a ni ang a. A vawh lai ber in 9-11ºC ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 32-44% 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: Lawngthai **Period:** 06 December – 10 December, 2018

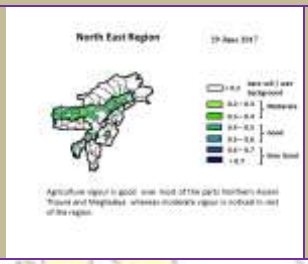
Bulletin No: - 760/2018/ Bulletin/English **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	25	24
Min Temp (ºC)	9	9	9	9	8
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	95	93	89	89
Min RH (%)	39	38	34	31	29
Wind Speed (KmpH)	3	4	4	3	2
*Wind Direction	N-E	N-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	Weather forecast valid from 06th January, 2018 To 10thJanuary, 2018.
Maximum Tem. (ºC):21-23ºC **Minimum Tem. (ºC):**11-13ºC **Maximum RH (%):**94-99% **Minimum RH (%):**76-88% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 2-3 km/hr **Rainfall:** 02.5 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 24-25ºC and 8-9ºC. Maximum relative humidity is expected in the range of 89-96% and minimum may from 29-39%. Wind direction would be northeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

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			day
			✦ 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	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ 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.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

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			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 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

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			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 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:** 06 December – 10 December, 2018

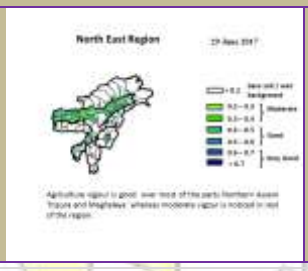
Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	25	24
Min Temp (ºC)	9	9	9	9	8
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	96	95	93	89	89
Min RH (%)	39	38	34	31	29
Wind Speed (KmpH)	3	4	4	3	2
*Wind Direction	N-E	N-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	06th January – 10th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):21-23ºC **Minimum Tem. (ºC):**11-13ºC **Maximum RH (%):**94-99% **Minimum RH (%):**76-88% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 2-3 km/hr **Rainfall:** 02.5 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 8-9ºC ni tura beisei a ni. RH san lai berin 89-96% leh a hniam lai berin 29-39% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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: Lunglei **Period:** 06 December – 10 December, 2018

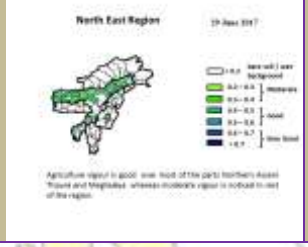
Bulletin No: - 760/2018/ Bulletin/English **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	25	25	24	25
Min Temp (ºC)	8	8	8	7	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	90	95	90	100	90
Min RH (%)	33	31	28	24	22
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	N-E	E	E	E

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

Status of 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 06th January, 2018 To 10thJanuary, 2018.
Maximum Tem. (ºC):14-17ºC **Minimum Tem. (ºC):**7-9ºC **Maximum RH (%):**94-99% **Minimum RH (%):**72-85% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 2-3 km/hr **Rainfall:** 05.4 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 24-26ºC and 7-8ºC. Maximum relative humidity is expected in the range of 90-100% and minimum may from 22-33%. Wind direction would be easterly to northeasterly and easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days. ***Weekly cumulative rainfall:*** **00.0 mm**
NDVI for Mizoram	 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field. ✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
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 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.

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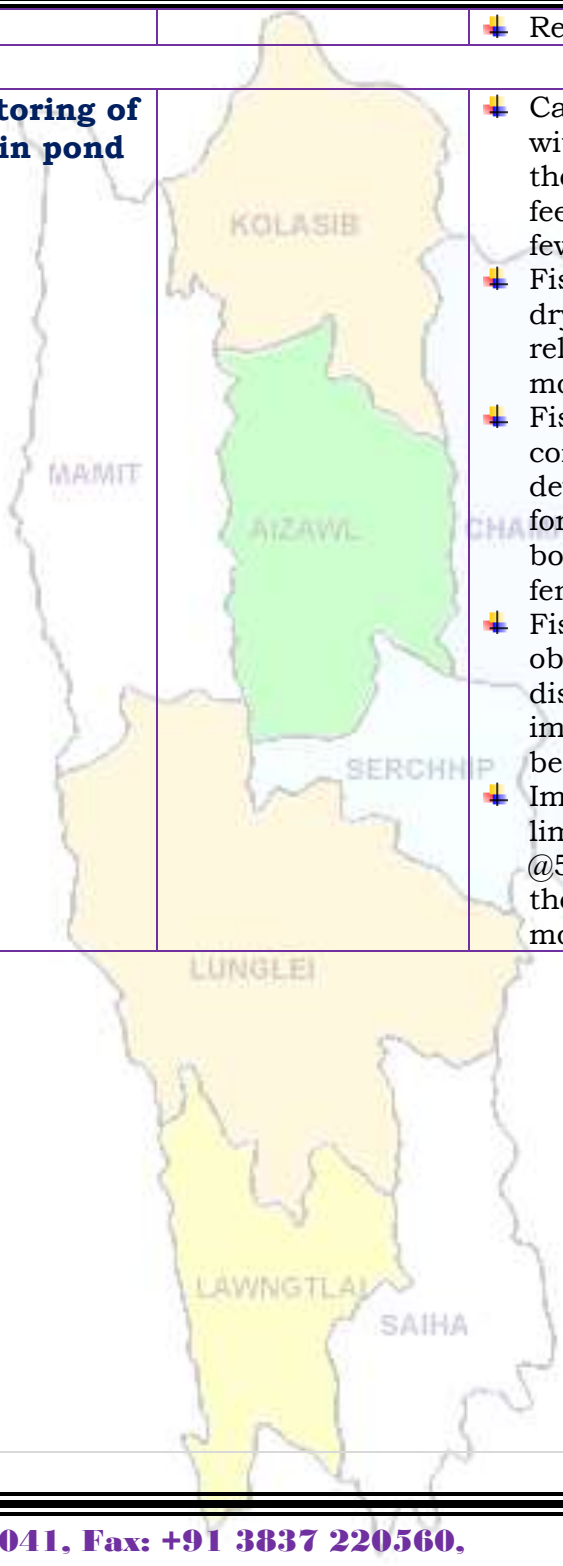
			↓ Remove wet litter.
FISHERY			
	Monitoring of fish in pond		↓ Care should be taken that fish are fed with feed that are free from fungus. If the fungal growth is observed in fish feed, the feed needs to be sundried for few days prior to feeding. ↓ Fish feed should be stored in cool and dry place to avoid fungal growth that releases aflatoxin which could lead to 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: Lunglei **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	26	25	25	24	25
Min Temp (ºC)	8	8	8	7	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	90	95	90	100	90
Min RH (%)	33	31	28	24	22
Wind Speed (KmpH)	4	4	4	4	4
*Wind Direction	E	N-E	E	E	E

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

Status of 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):14-17ºC
Minimum Tem. (ºC):7-9ºC
Maximum RH (%):94-99%
Minimum RH (%):72-85%
Wind Direction: Easterly
Cloud cover: Partially clear
Wind speed: 2-3 km/hr

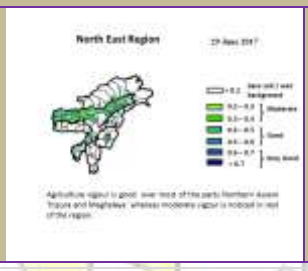
Rainfall: 05.4 mm

06th January – 10th 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 24-26ºC a ni ang a. A vawh lai ber in 7-8ºC ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 22-33% ni tur a rin niin. Thli hi darkar khatah 4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Weekly cumulative rainfall: **00.0mm**

NDVI for Mizoram



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:** 06 December – 10 December, 2018

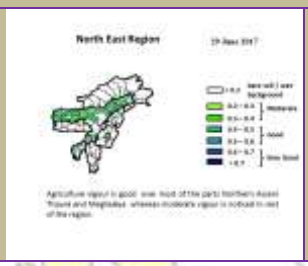
Bulletin No: - 760/2018/ Bulletin/English **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	23
Min Temp (ºC)	11	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	90	90	90	98	100
Min RH (%)	36	35	33	30	27
Wind Speed (KmpH)	2	3	3	2	2
*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 06th January, 2018 To 10thJanuary, 2018.
Maximum Tem. (ºC):21-24ºC **Minimum Tem. (ºC):**12-15ºC **Maximum RH (%):**95-98% **Minimum RH (%):**74-88% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 2-3 km/hr **Rainfall:** 10.2 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 23-25ºC and 9-11ºC. Maximum relative humidity is expected in the range of 90-100% and minimum may from 27-36%. Wind direction would be easterly with the wind speed of 2-3 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

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			day
			✦ 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	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ 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.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

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			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 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

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			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 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: Mamit **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	24	23
Min Temp (ºC)	11	10	10	9	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	90	90	90	98	100
Min RH (%)	36	35	33	30	27
Wind Speed (KmpH)	2	3	3	2	2
*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

Maximum Tem. (ºC):21-24ºC
Minimum Tem. (ºC):12-15ºC
Maximum RH (%):95-98%
Minimum RH (%):74-88%
Wind Direction: Easterly
Cloud cover: Partially clear
Wind speed: 2-3 km/hr

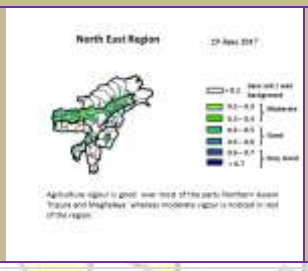
Rainfall: 10.2 mm

06th January – 10th 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 23-25ºC a ni ang a. A vawh lai ber in 9-11ºC ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 27-36% ni tur a rin niin. Thli hi darkar khatah 2-3 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



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: Saiha **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/English **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	25	24
Min Temp (ºC)	9	9	9	9	8
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	98	98	98	98
Min RH (%)	26	29	25	14	18
Wind Speed (KmpH)	4	3	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

Maximum Tem. (ºC):18-21ºC
Minimum Tem. (ºC):10-11ºC
Maximum RH (%):92-97%
Minimum RH (%):72-85%
Wind Direction: Easterly
Cloud cover: Partially clear
Wind speed: 0-2 km/hr

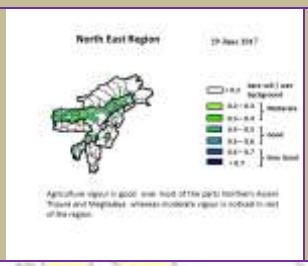
Rainfall: 00.0 mm

Weather forecast valid from 06th January, 2018 To 10thJanuary, 2018.

There are no chances of rainfall during next 5 days. The maximum and minimum temperatures for the next 5 days may range for 24-25ºC and 8-9ºC. Maximum relative humidity is expected in the range of 98% and minimum may from 14-26%. 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



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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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from waterloss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate day
			✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed

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			✦ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field. ✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings

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			on ridges. Provide water every alternate day.
French bean	**Germination stage**		Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. Thinning must be done.
Capsicum	**Transplant stage**	**Poly house**	Chilli will be planted in well pulverized and leveled field. Chilli will be normally planted in raised beds of 60 to 75 cm width. Application of FYM (1.5-2.0 kg/ m^2) Provide water every alternate day.
Potato	**Sowing stage**		Prepare the land for potato cultivation without any further delay. This may help to avoid some bacterial infection at growing stage. Land may be ploughed thoroughly for proper tillage. If land is prepared good quality of seeds may be collected for planting. Cultivation from TPS is also found profitable. Seed must be treated before sowing.
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	1. Culling of positive pigs or piglets.

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		Syndrome (PRRS).	
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 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.

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			✦ 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 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: Saiha **Period:** 06 December – 10 December, 2018

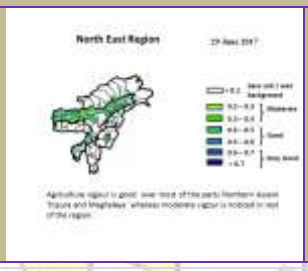
Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	25	25	25	24
Min Temp (ºC)	9	9	9	9	8
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	98	98	98	98
Min RH (%)	26	29	25	14	18
Wind Speed (KmpH)	4	3	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	06th January – 10th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC): 18-21ºC **Minimum Tem. (ºC):** 10-11ºC **Maximum RH (%):** 92-97% **Minimum RH (%):** 72-85% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 0-2 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 8-9ºC ni tura beisei a ni. RH san lai berin of 98% leh a hniam lai berin 14-26% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 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: Serchhip **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/English **Date of issue:** 05th January, 2018

Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	24	23	23	23
Min Temp (ºC)	6	5	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	100	100	95	100
Min RH (%)	26	27	23	19	17
Wind Speed (KmpH)	2	2	3	4	3
*Wind Direction	E	E	E	E	E

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

Status of 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): 18-22ºC
Minimum Tem. (ºC): 10-13ºC
Maximum RH (%): 91-98%
Minimum RH (%): 79-89%
Wind Direction: Easterly
Cloud cover: Partially clear
Wind speed: 1-2 km/hr

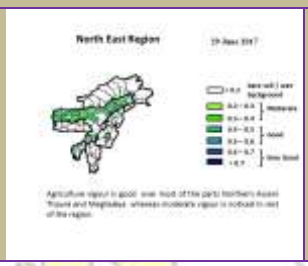
Rainfall: 06.1 mm

Weather forecast valid from 06th January, 2018 To 10thJanuary, 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 23-25ºC and 4-6ºC. Maximum relative humidity is expected in the range of 95-100% and minimum may from 17-27%. 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**	**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. ✦ Collection of infected dropped fruit and buried in to soil. ✦ Regular monitoring for trunk borer infestation. ✦ Harvesting should be done along with twig with two leaves. ✦ 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. **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%

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			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. - Use grass or straw mulch to prevent from water loss. - Medium to young seedling should be support by bamboo stake. - 10-12 kg of well rotten organic manure and 225 gm rock phosphate should be apply at time of planting to each pit as basal dose application.
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.
CEREALS AND PULSE CROPS			
Kharif Rice	**Harvesting stage**		- Birds scaring ribbon should be used for scaring the birds. - Harvest all mature panicle to reduce bird damage. - Harvesting should be done on sunny day at least 15 cm above the ground for moisture conservation and no till pea and mustard/ toria

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			sowing. - After sun drying harvested paddy is 5 recommended to be stored at ≤ 14% moisture.
Rabi Maize	**Vegetative stage**		- Thinning must be done where more population was observed. - Irrigation should be provide 3 days interval - Apply 2% urea solution for better growth. - Weeding and earthing up should be carried out. - Leaf and stem cutter insect will be more so apply any contact poison for reducing pest population.
Zero tillage Greengram and blackgram	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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*	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - 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	**Vegetative stage**	**Zero tillage**	- Possibility of rain will be very less. So provide water every alternate day. - Weeding should be done. - Collection and destruction of Blister beetles and spraying of Neem oil @3ml/lit should be done. - Apply split dose of fertilizer for better growth.

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VEGETABLE CROP			
Ginger and turmeric	**Vegetative stage**		✚ According to forecast and past weather record, probability of rain will be less and temperature will be high. So drainage channel shall be block the channel for maintain field moisture. ✚ Earthing up soil near the base of the plant along with fertilizer for better growth and development. ✚ Due to high humidity, probability of shoot borer infestation will be high. Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Early cole crop	**Transplanting stage**	**Land preparation**	✚ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✓ Plough the field 3-4 times. ✓ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✓ Application of FYM (1.5-2.0 kg/ m2) ✓ Fertilizer application 180:50:50 kg/ha.
		Damping off	✚ 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.
Onion	**Nursery stage**	**Poly house**	✚ Plough the land to a fine tilth and form ridges and furrows at 45 cm spacing. ✚ Sow the bulbs on both the sides of the ridges at 10 cm apart. ✚ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✚ Provide irrigation every alternate

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			day
			✦ 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	**Germination stage**		✦ Possibility of rain will be less coming five days. So alternate irrigation should be done 2 days interval. ✦ Thinning must be done. ✦
Capsicum	**Transplant stage**	**Poly house**	✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Brinjal	**Transplant stage**		✦ Brinjal will be planted in well pulverized and leveled field. ✦ Brinjal will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day
Chilli	**Transplant stage**		✦ Chilli will be planted in well pulverized and leveled field. ✦ Chilli will be normally planted in raised beds of 60 to 75 cm width. ✦ Application of FYM (1.5-2.0 kg/ m^2) ✦ Provide water every alternate day.
Tomato	**Transplant stage**		✦ Tomato will be planted in well pulverized and leveled field.

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			✦ Tomato will be normally planted in raised beds of 60 to 75 cm width. ✦ The transplanting is done in small flat beds or in shallow furrow depending upon the availability of irrigation. ✦ In heavy soil it is usually transplanted on ridges and during the rains also it is advantageous to plant the seedlings on ridges. ✦ Provide water every alternate day.
		Damping off	✦ 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.
Potato	**Sowing stage**		✦ Prepare the land for potato cultivation without any further delay. ✦ This may help to avoid some bacterial infection at growing stage. ✦ Land may be ploughed thoroughly for proper tillage. ✦ If land is prepared good quality of seeds may be collected for planting. ✦ Cultivation from TPS is also found profitable. ✦ Seed must be treated before sowing.
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

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			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 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

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			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 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: Serchhip **Period:** 06 December – 10 December, 2018

Bulletin No: - 760/2018/ Bulletin/Mizo **Date of issue:** 05th January, 2018

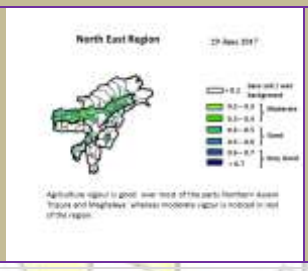
Parameters	06.01.2018	07.01.2018	08.01.2018	09.01.2018	10.01.2018
Rainfall (mm)	0	0	0	0	0
Max Temp (ºC)	25	24	23	23	23
Min Temp (ºC)	6	5	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Mainly clear
Max RH (%)	98	100	100	95	100
Min RH (%)	26	27	23	19	17
Wind Speed (KmpH)	2	2	3	4	3
*Wind Direction	E	E	E	E	E

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

Status of 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	06th January – 10th January, 2018 chhunga sik leh sa dinhmun tur tlangpui
Maximum Tem. (ºC):18-22ºC **Minimum Tem. (ºC):**10-13ºC **Maximum RH (%):**91-98% **Minimum RH (%):**79-89% **Wind Direction:** Easterly **Cloud cover:** Partially clear **Wind speed:** 1-2 km/hr **Rainfall:** 06.1 mm	Tun ni 5 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 23-25ºC a ni ang a. A vawh lai ber in 4-6ºC ni tura beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 17-27% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni. ***Weekly cumulative rainfall:*** **00.0mm**
NDVI for Mizoram	 Moderately wet mildly dry/mildly wet conditions

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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
FRUITS CROPS			
KHASI MANDARIN AND ACID LIME **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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