



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: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	9	24	31	0	0
Max Temp (°C)	27	27	26	28	28
Min Temp (°C)	18	18	19	17	17
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	97	97	96	90	90
Min RH (%)	65	55	72	65	57
Wind Speed (Kmph)	4	4	6	2	4
*Wind Direction	N-E	E	S-E	N-E	E

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

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

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

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

**05th November– 09th November, 2016
chhunga sik leh sa dinhmun tur tlangpui**

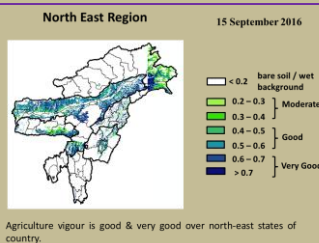
Maximum Tem. (°C):23-26°C
Minimum Tem. (°C): 17-18°C
Maximum RH (%):78-95%
Minimum RH (%):64-81%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 26-28°C a ni ang a. A vawh lai ber in 17-19°C ni tura beisei a ni. RH san lai berin 90-97% leh a hniam lai berin 55-75% ni tur a rin niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 08.6 mm

Weekly cumulative rainfall: 64.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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District: Lunglei

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	27	43	0	0
Max Temp (°C)	29	28	27	28	28
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	99	97	90	90
Min RH (%)	85	64	89	60	53
Wind Speed (Kmph)	4	4	6	2	3
*Wind Direction	N-E	E	S-E	N-E	S-E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 19-21°C
Minimum Tem. (°C): 14-15°C
Maximum RH (%):75-90%
Minimum RH (%):60-78%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

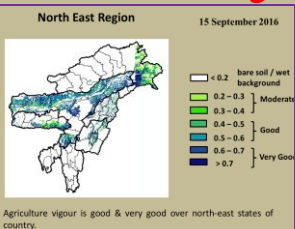
Rainfall: 16.6 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of heavy to moderate rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 18-19°C. Maximum relative humidity is expected in the range of 90-99% and minimum may from 53-89%. Wind direction would be northeasterly to easterly to southeasterly to northeasterly and southeasterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 82.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions

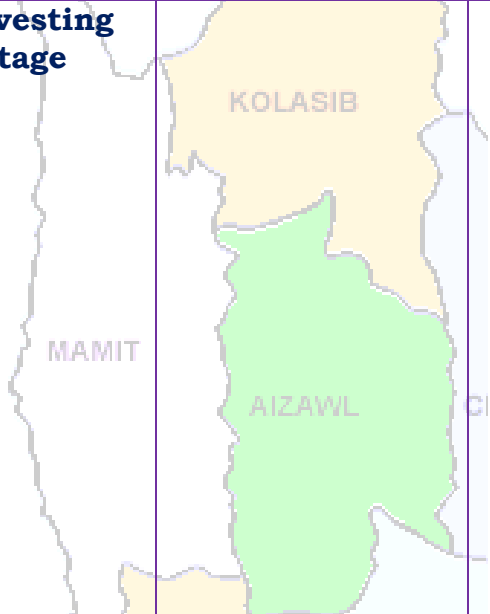
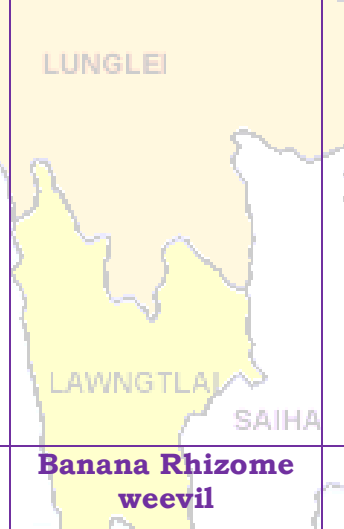


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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	 KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	 LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Baibing (Local Vegetable)	Harvesting stage		- Weed free near base of the plant. - Harvest all mature fruits. - Keep seeds for next year.
Okra	Harvesting stage	KOLASIB	- Harvest all mature fruit. - Keep over mature fruit for seed production. - Keep dry fruits in sun for drying and store for next year
		Okra leafroller	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Tomato	Vegetative stage	MAMIT AIZAWL SERCHHIP	- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - Earthing up should also be done after 30 and 45 days of planting. - Staking is very important to support the plants to get more yields and quality should be done after one month of planting. - Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt LUNGLEI	- Uproot all infected plant and burn it. - This disease can be minimized by practicing crop rotation. - Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage	LAWNGTLAI SAIHA	- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the



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			time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Capsicum	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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.
Brussels sprout	Nursery stage		- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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.

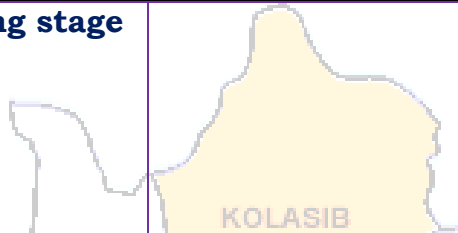
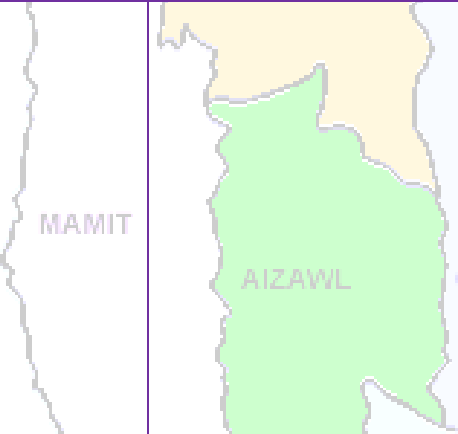
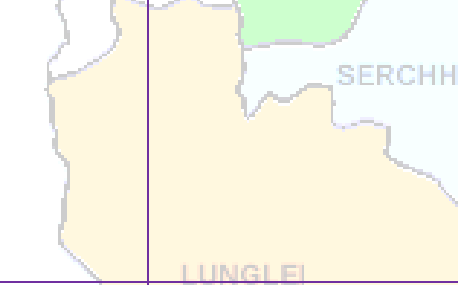
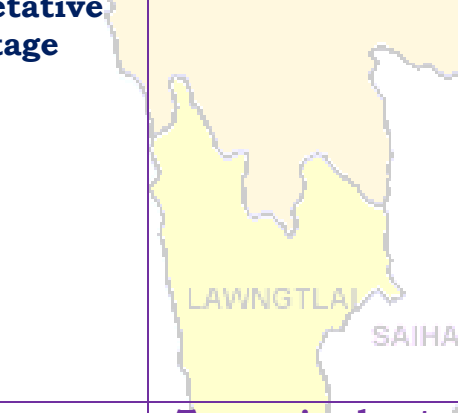


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French bean	Sowing stage		- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Carrot and radish			- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earing up of soil along with fertilizer mixture.
			Turmeric shoot - Apply insecticide like imidacloprid 0.5



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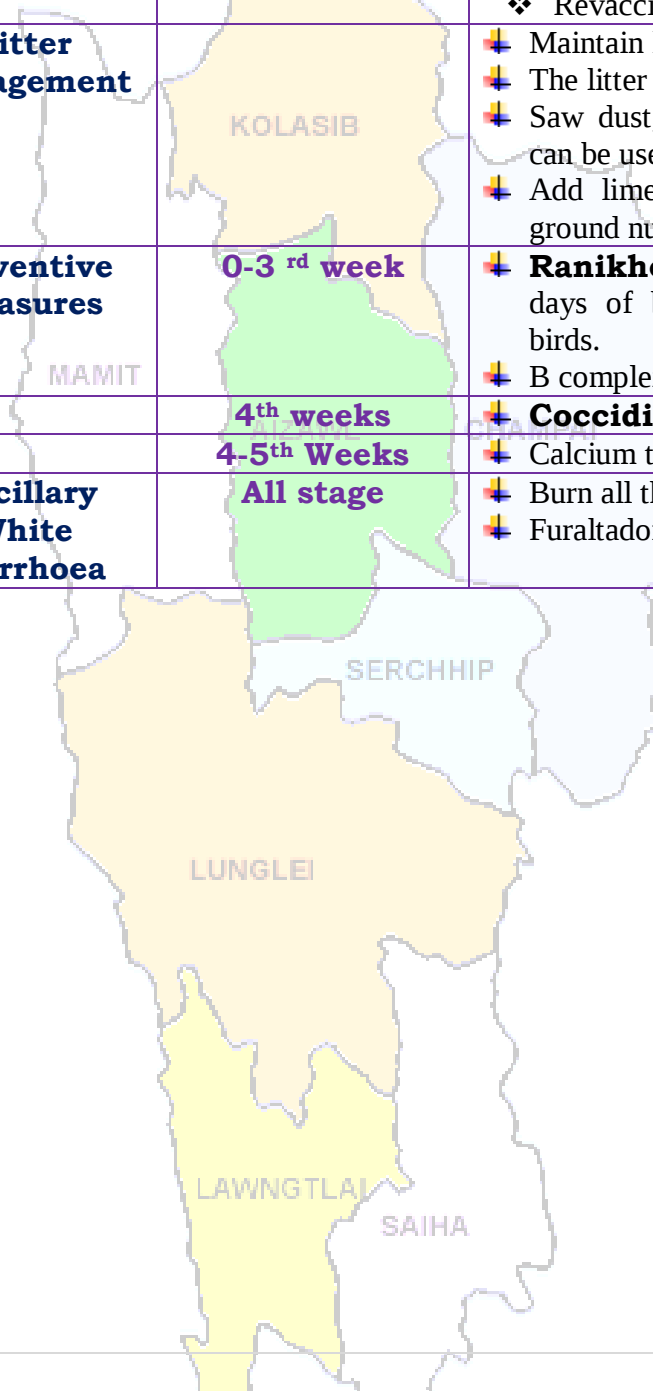
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		borer	ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif Rice	Harvesting stage	KOLASIB	- Colour turns to green to light gold. - Harvesting of rice was done manually by leaving about 20 cm standing stubbles in the field. - Keep harvesting sample in sun for drying.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage	MAMIT AIZAWL SERCHHIP	- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Pig	All stages	Pig disease LUNGLEI	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever. LAWNGTLAI SAIHA	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.

	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management	KOLASIB	✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B₁₂
	Bacillary White Diarrhoea	All stage	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.





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District: Lunglei

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	27	43	0	0
Max Temp (°C)	29	28	27	28	28
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	99	97	90	90
Min RH (%)	85	64	89	60	53
Wind Speed (Kmph)	4	4	6	2	3
*Wind Direction	N-E	E	S-E	N-E	S-E

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

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

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

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

**05th November– 09th November, 2016
 chhunga sik leh sa dinhmun tur tlangpui**

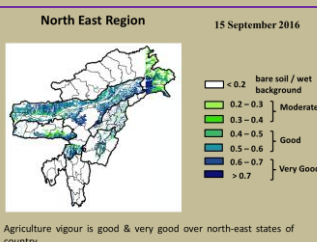
Maximum Tem. (°C): 19-21°C
Minimum Tem. (°C): 14-15°C
Maximum RH (%):75-90%
Minimum RH (%):60-78%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-29°C a ni ang a. A vawh lai ber in 18-19°C ni tura beisei a ni. RH san lai berin 90-99% leh a hniam lai berin 53-89% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 16.6 mm

Weekly cumulative rainfall: 82.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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

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



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



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



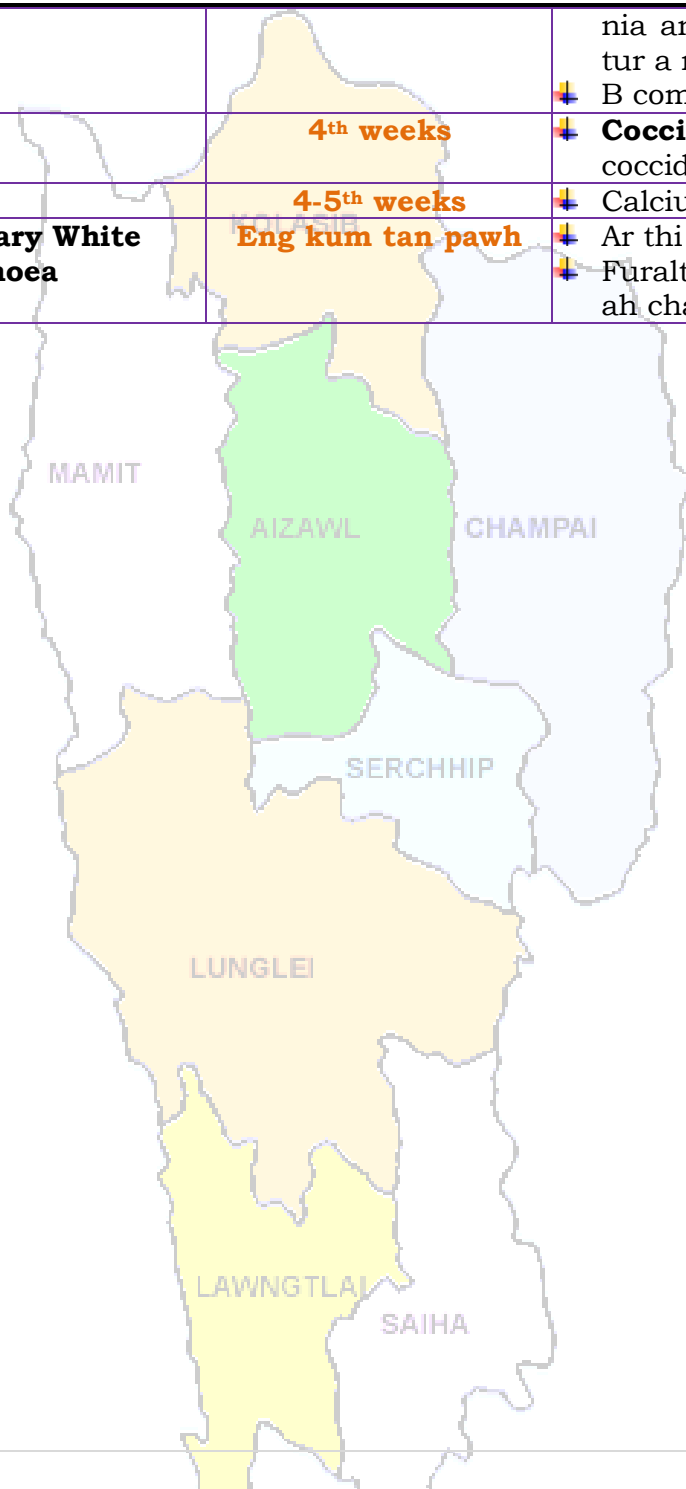
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			nia an puitlin hunah R ₂ B pek leh tur a ni.
		4 th weeks	B complex leh antibodies
		4-5 th weeks	Coccidiosis - Amprolium emaw coccidiostat pek tur.
	Bacillary White Diarrhoea	Eng kum tan pawh	Calcium tonic leh B ₁₂
			Ar thi zawng zawng hal ral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





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ICAR RESEARCH COMPLEX FOR NEH REGION
Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
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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: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	57	66	0	0
Max Temp (°C)	24	23	22	24	25
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	100	100
Min RH (%)	94	90	97	73	55
Wind Speed (Kmph)	2	4	6	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 MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):16-18°C
Maximum RH (%):75-90%
Minimum RH (%):62-82%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

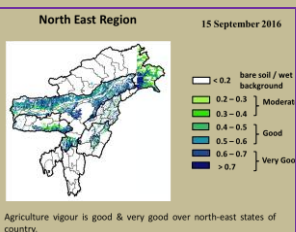
Rainfall: 12.3 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of heavy to moderate rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 22-25°C and 18-19°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 55-90%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 135.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		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.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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

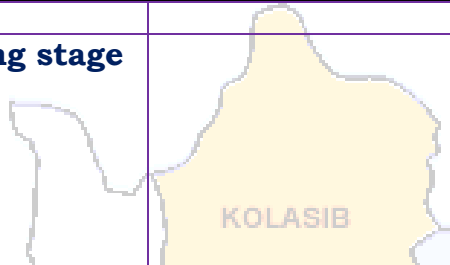
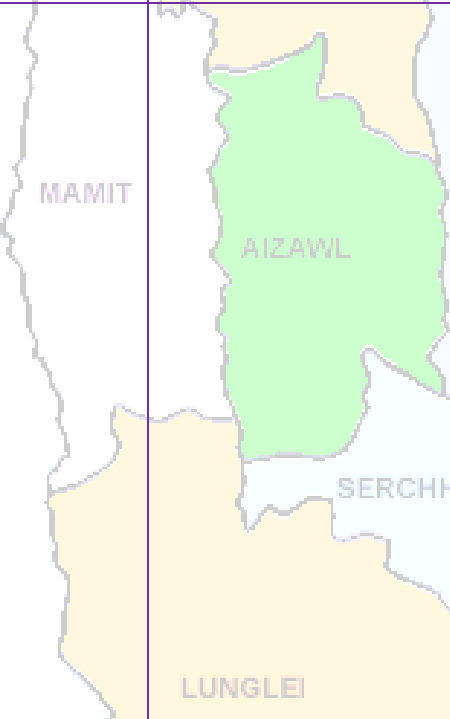


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French bean	Sowing stage		at 10-15 DAS are effective. - Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Carrot and radish			- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.



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		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage		- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Soybean	Vegetative stage	Zero tillage	- Clear base of the plant. - Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	- Clear base of the plant. - Earthing up soil near to plant for better support. - For French bean use bamboo for staking or support. - Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	Culling of positive pigs or piglets.



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	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3 rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies
		4 th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.



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District: Mamit

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	57	66	0	0
Max Temp (°C)	24	23	22	24	25
Min Temp (°C)	18	19	19	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	100	100
Min RH (%)	94	90	97	73	55
Wind Speed (Kmph)	2	4	6	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 MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

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

Ni thum kalta sik leh sa dinhmun tlangpui

**05th November– 09th November, 2016
chhunga sik leh sa dinhmun tur tlangpui**

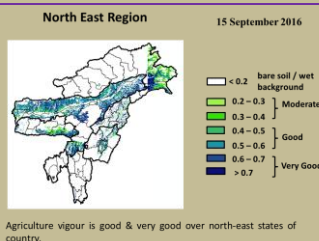
Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):16-18°C
Maximum RH (%):75-90%
Minimum RH (%):62-82%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 22-25°C a ni ang a. A vawh lai berin 18-19°C ni tura beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 55-90% ni tur a rin niin. Thli hi darkar khatah 2-6 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 12.3 mm

Weekly cumulative rainfall: 135.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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District: Saiha

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	6	12	17	0	0
Max Temp (°C)	27	27	27	28	28
Min Temp (°C)	17	17	17	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	98	98	96	90	91
Min RH (%)	61	52	69	62	54
Wind Speed (Kmph)	4	4	4	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 MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):18-20°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):75-91%
Minimum RH (%):62-75%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

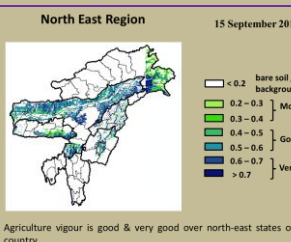
Rainfall: 18.4 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 27-28°C and 15-17°C. Maximum relative humidity is expected in the range of 90-98% and minimum may from 52-69%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 35.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Baibing (Local Vegetable)	Harvesting stage		✚ Weed free near base of the plant. ✚ Harvest all mature fruits. ✚ Keep seeds for next year.
Tomato	Vegetative stage		✚ Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. ✚ Earthing up should also be done after 30 and 45 days of planting. ✚ Staking is very important to support the plants to get more yields and quality should be done after one month of planting. ✚ Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt	✚ Uproot all infected plant and burn it. ✚ This disease can be minimized by practicing crop rotation. ✚ Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage		✚ Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. ✚ To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. ✚ Water should be applied at every week interval. ✚ Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	✚ Deficiency is managed with the application of neem cake @0.4kg/m². ✚ Apply 2% urea solution when this symptom will occur.
		P deficiency	✚ Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m².



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			Apply 4% DAP solution when this symptom will occur.
Ginger and turmeric	Vegetative stage	KOLASIB	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		MAMIT	
		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Capsicum	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		SERCHHIP	- 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	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		LUNGLEI	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	LAWNGTLAI	- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X
		SAIHA	



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			30 cm. Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Carrot and radish		KOLASIB MAMIT AIZAWL SERCHHIP LUNGLEI LAWNGTLAI SAIHA	- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
Brussels sprout	Nursery stage		- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage		- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea



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		KOLASIB	and lentil. ✚ Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. ✚ A recommended dose of 30 kg N, 60 kg P ₂ O ₅ and 40 kg K ₂ O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Pig	All stages	Pig disease MAMIT AIZAWL	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3 rd week SAIHA	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies



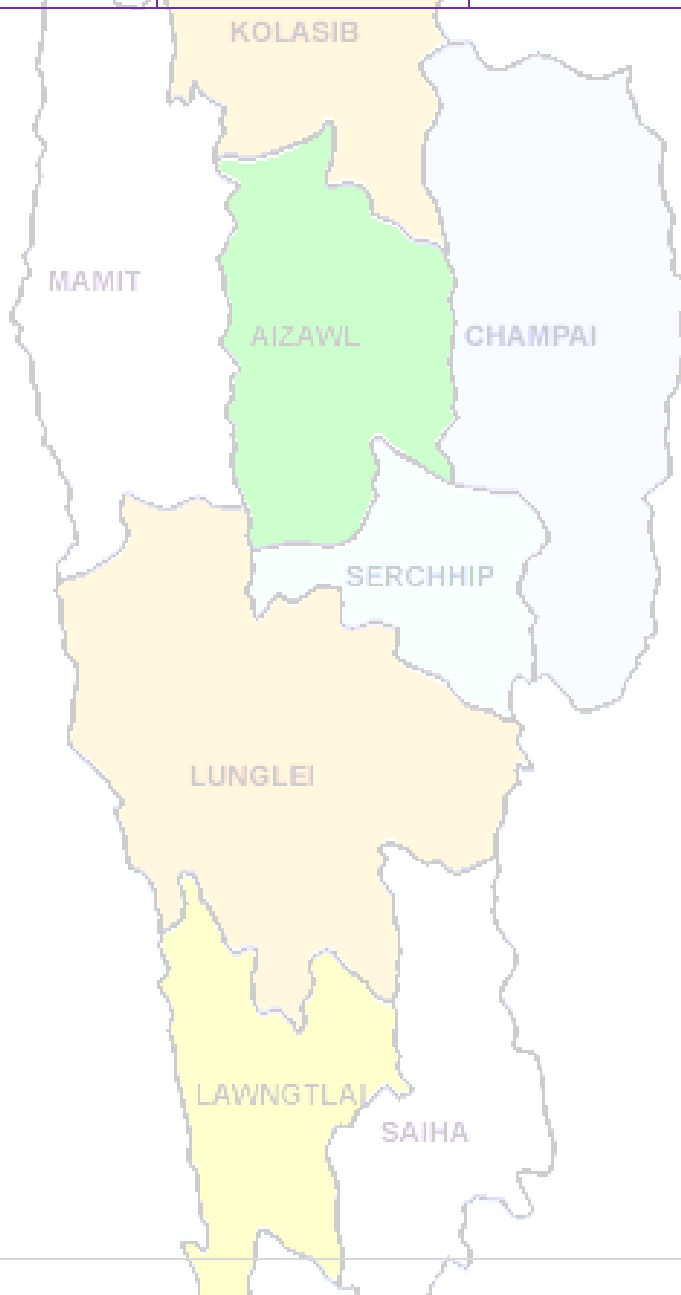
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		4 th weeks	☛ Coccidiosis- Amprolium or coccidiostat
		4-5 th Weeks	☛ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All stage	☛ Burn all the dead birds. ☛ Furaltadone@ 0.5 g/litre of water for 7 days.





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District: Saiha

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	6	12	17	0	0
Max Temp (°C)	27	27	27	28	28
Min Temp (°C)	17	17	17	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	98	98	96	90	91
Min RH (%)	61	52	69	62	54
Wind Speed (Kmph)	4	4	4	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 MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

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

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

**05th November– 09th November, 2016
chhunga sik leh sa dinhmun tur tlangpui**

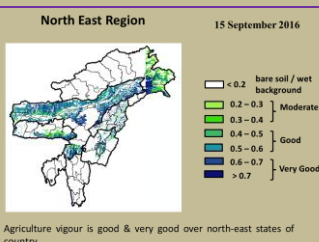
Maximum Tem. (°C):18-20°C
Minimum Tem. (°C):12-14°C
Maximum RH (%):75-91%
Minimum RH (%):62-75%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-28°C a ni ang a. A vawh lai ber in 15-17°C ni tura beisei a ni. RH san lai berin 90-98% leh a hniam lai berin 52-69% 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 chung hian khawthiang tak hmuh beisei a ni.

Rainfall: 18.4 mm

Weekly cumulative rainfall: 35.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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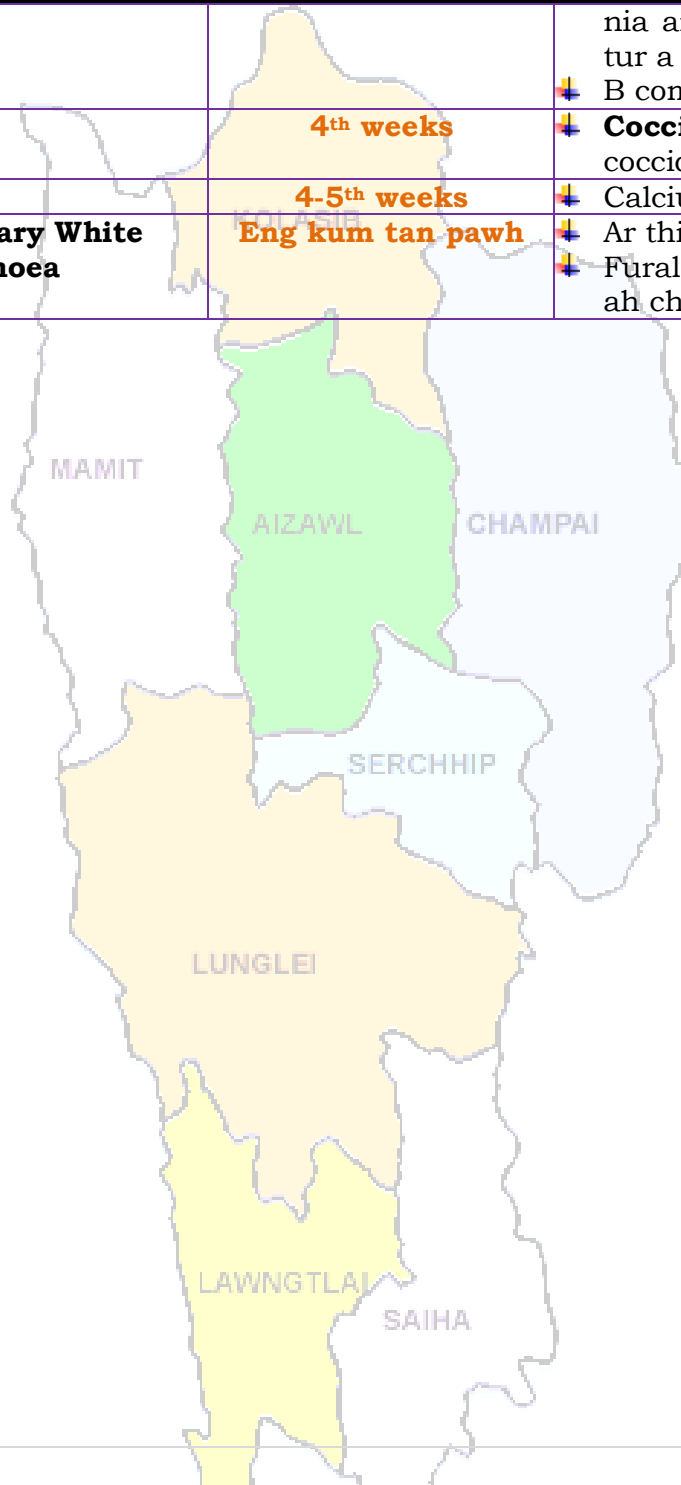
			Lekhachhaih hi sava hlahu atan hman thin a ni bawk.
		Rice yellow stem borer KOLASIB	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate 2ml emaw pawlh a, chu tui chu kah tur.
Vawk	Kumtluanin	Vawk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

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





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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: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	8	27	27	0	0
Max Temp (°C)	26	26	24	26	26
Min Temp (°C)	17	18	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	100	97	85	85
Min RH (%)	87	67	93	54	50
Wind Speed (Kmph)	2	4	4	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 MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):20-21°C
Minimum Tem. (°C): 16-17°C
Maximum RH (%):78-89%
Minimum RH (%):62-74%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

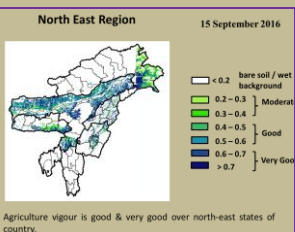
Rainfall: 16.4 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of moderate to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 24-26°C and 17-18°C. Maximum relative humidity is expected in the range of 85-100% and minimum may from 50-93%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 62.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		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.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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



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French bean	Sowing stage		at 10-15 DAS are effective. - Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		MAMIT	- 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.
Carrot and radish		AIZAWL	- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
		SERCHHIP	
		LUNGLEI	
		LAWNGTLAI	
		SAIHA	
Ginger and turmeric	Vegetative stage		Remove unwanted plant near base of the plant and cut dead branches.



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		KOLASIB	- Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage	AIZAWL	- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Soybean	Vegetative stage	LUNGLEI	- Clear base of the plant. - Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	LAWNGTLAI	- Clear base of the plant. - Earthing up soil near to plant for better support. - For French bean use bamboo for staking or support. - Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	SAIHA	Illness in pigs characterized by dullness, in appetite, disinclination to



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			move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.



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District: Serchhip

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	8	27	27	0	0
Max Temp (oC)	26	26	24	26	26
Min Temp (oC)	17	18	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	100	97	85	85
Min RH (%)	87	67	93	54	50
Wind Speed (Kmph)	2	4	4	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 MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

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

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

**05th November– 09th November, 2016
chhunga sik leh sa dinhmun tur tlangpui**

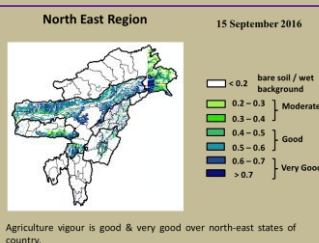
Maximum Tem. (oC):20-21oC
Minimum Tem. (oC): 16-17oC
Maximum RH (%):78-89%
Minimum RH (%):62-74%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Tun ni 3 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 17-18oC ni tura beisei a ni. RH san lai berin 85-100% leh a hniam lai berin 50-93% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 16.4 mm

Weekly cumulative rainfall: 62.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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



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



District: Aizawl

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	65	68	0	0
Max Temp (°C)	29	27	27	28	28
Min Temp (°C)	18	17	16	16	16
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	90	90
Min RH (%)	94	89	97	63	53
Wind Speed (Kmph)	2	3	4	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 MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):20-22°C
Minimum Tem. (°C): 14-16°C
Maximum RH (%):81-94%
Minimum RH (%):65-81%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

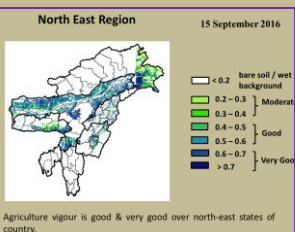
Rainfall: 18.4 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of very heavy to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 16-18°C. Maximum relative humidity is expected in the range of 90-100% and minimum may from 53-97%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 145.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
Oil plam	Harvesting stage		- Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. - The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. - Harvesting can be done when the fruit on plam turns into yellowish to orange colour. - While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. - In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage		- Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. - Crop will be ready for harvest in 6-8 months after planting. - Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated. - Keep the cormels in shed dry.
Tomato	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - Earthing up should also be done after 30 and 45 days of planting. - Staking is very important to support the plants to get more yields and quality should be done after one month of planting.



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			Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt KOLASIB	- Uproot all infected plant and burn it. - This disease can be minimized by practicing crop rotation. - Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage	MAMIT AIZAWL	- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		LAWNGTLAI	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	SAIHA	Variable, healthy, well mature and pure seeds should be sown.



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			- Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Capsicum	Nursery stage	Poly house KOLASIB	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		MAMIT	
		AIZAWL	- 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.
Carrot and radish		SERCHHIP	
		LUNGLEI	- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
Ginger and turmeric	Vegetative stage	LAWNGTLAI	
		SAIHA	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water,



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		KOLASIB	Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. ✚ Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	✚ Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage	MAMIT AIZAWL CHAMPA SERCHHIP	✚ After harvesting of rice, pea and lentil will sow under no-till system. ✚ The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. ✚ Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. ✚ A recommended dose of 30 kg N, 60 kg P ₂ O ₅ and 40 kg K ₂ O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Soybean	Vegetative stage	LUNGLEI	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	✚ Clear base of the plant. ✚ Earthing up soil near to plant for better support. ✚ For French bean use bamboo for staking or support. ✚ Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	✚ Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian



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			doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.



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District: Aizawl

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	12	65	68	0	0
Max Temp (°C)	29	27	27	28	28
Min Temp (°C)	18	17	16	16	16
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	90	90
Min RH (%)	94	89	97	63	53
Wind Speed (Kmph)	2	3	4	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 MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

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

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

**05th November– 09th November, 2016
 chhunga sik leh sa dinhmun tur tlangpui**

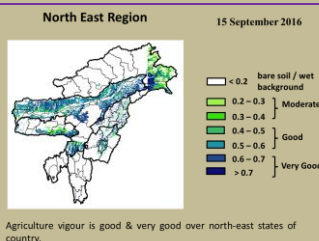
Maximum Tem. (°C):20-22°C
Minimum Tem. (°C): 14-16°C
Maximum RH (%):81-94%
Minimum RH (%):65-81%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-29°C a ni ang a. A vawh lai berin 16-18°C ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 53-97% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 18.4 mm

Weekly cumulative rainfall: 145.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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



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



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



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



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



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



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



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ICAR RESEARCH COMPLEX FOR NEH REGION
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District: Champhai

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	10	58	52	7	0
Max Temp (°C)	29	28	27	27	27
Min Temp (°C)	18	19	18	18	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	99	98	100	90
Min RH (%)	90	77	93	60	55
Wind Speed (Kmph)	2	3	3	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C): 21-23°C
Minimum Tem. (°C): 14-17°C
Maximum RH (%):75-94%
Minimum RH (%):61-81%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

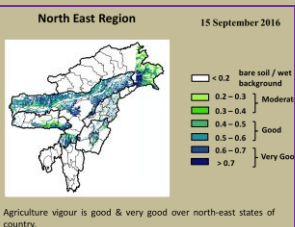
Rainfall: 23.8 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of very heavy to moderate and light rainfall during the next 4 days. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 17-19°C. Maximum relative humidity is expected in the range of 90-100% and minimum may from 55-93%. Wind direction would be easterly to southeasterly with the wind speed of 2-3 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 127.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Baibing (Local Vegetable)	Harvesting stage		- Weed free near base of the plant. - Harvest all mature fruits. - Keep seeds for next year.
Tomato	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - Earthing up should also be done after 30 and 45 days of planting. - Staking is very important to support the plants to get more yields and quality should be done after one month of planting. - Mulching with black polythene film reduces weed growth, increase crop growth, early bearing and total yield.
		Bacterial wilt	- Uproot all infected plant and burn it. - This disease can be minimized by practicing crop rotation. - Soil dranching with Bordeaux mixture (1:1:100) after one month of planting is effective method to manage this disease.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m².



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			✚ Apply 4% DAP solution when this symptom will occur.
Capsicum	Nursery stage	Poly house	✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		KOLASIB	✚ 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.
Carrot and radish		MAMIT	
		AIZAWL	✚ Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. ✚ In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. ✚ In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. ✚ The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. ✚ 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
		SERCHHIP	
		LUNGLEI	
Onion	Nursery stage	Poly house	✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		LAWNGTLAI	✚ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed
		SAIHA	



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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.
Brussels sprout	Nursery stage	KOLASIB	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
French bean	Sowing stage	AIZAWL	- Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Ginger and turmeric	Vegetative stage	LUNGLEI	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lt of water.
Kharif Rice	Harvesting stage	LAWNGTLAI	- Colour turns to green to light gold. - Harvesting of rice was done manually by leaving about 20 cm standing stubbles in the field. - Keep harvesting sample in sun for drying.

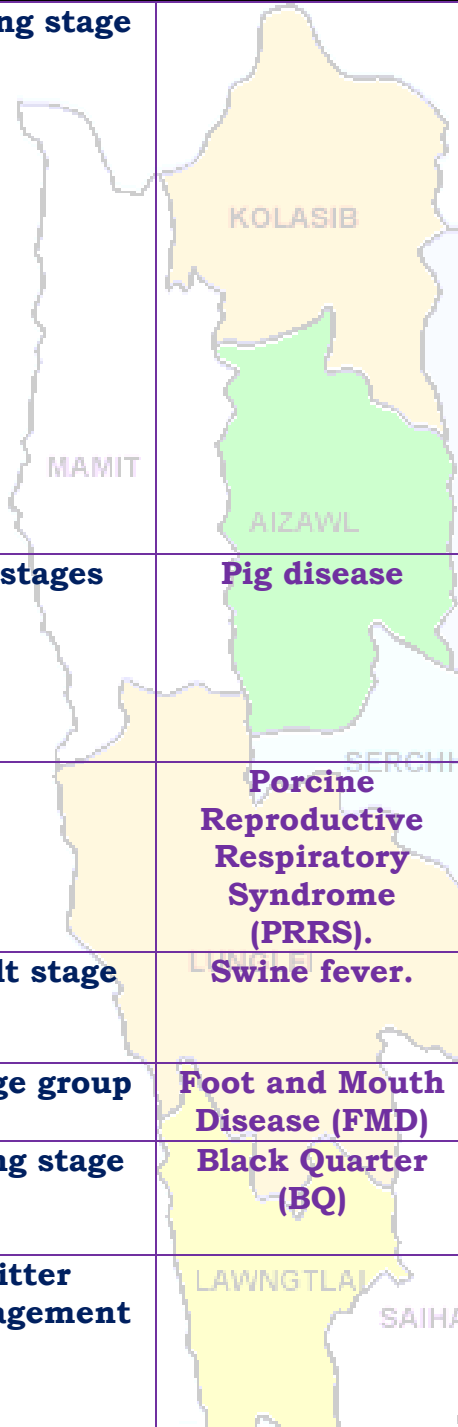


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Zero tillage pea and lentil cultivation in rice fellow	Sowing stage		- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Pig	All stages	Pig disease	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		- Maintain light 12-14 hrs in brooder house. - The litter should be 7.5- 10 cm deep. - Saw dust, paddy husk or ground nut hulls can be used as litter. - Add lime with Saw dust, paddy husk or



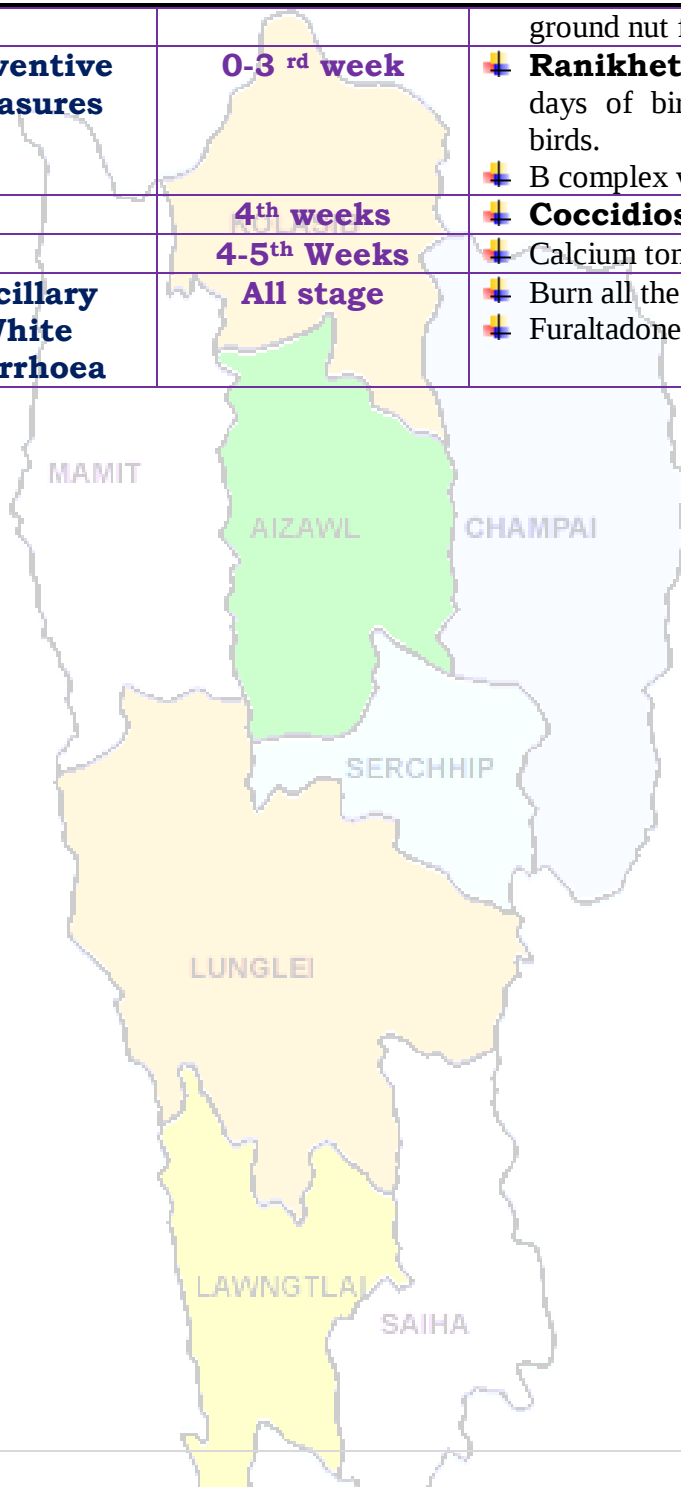
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			ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All stage	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.





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District: Champhai

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	10	58	52	7	0
Max Temp (°C)	29	28	27	27	27
Min Temp (°C)	18	19	18	18	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	99	99	98	100	90
Min RH (%)	90	77	93	60	55
Wind Speed (Kmph)	2	3	3	2	2
*Wind Direction	E	S-E	S-E	S-E	S-E

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

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

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

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

**05th November– 09th November, 2016
 chhunga sik leh sa dinhmun tur tlangpui**

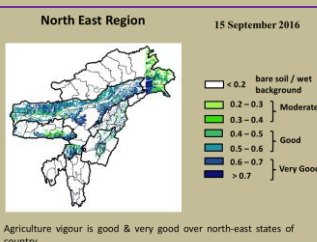
Maximum Tem. (°C): 21-23°C
Minimum Tem. (°C): 14-17°C
Maximum RH (%):75-94%
Minimum RH (%):61-81%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind Speed: 2km/hr

Tun ni 4 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 27-29°C a ni ang a. A vawh lai berin 17-19°C ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 55-93% 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.

Rainfall: 23.8 mm

Weekly cumulative rainfall: 127.0mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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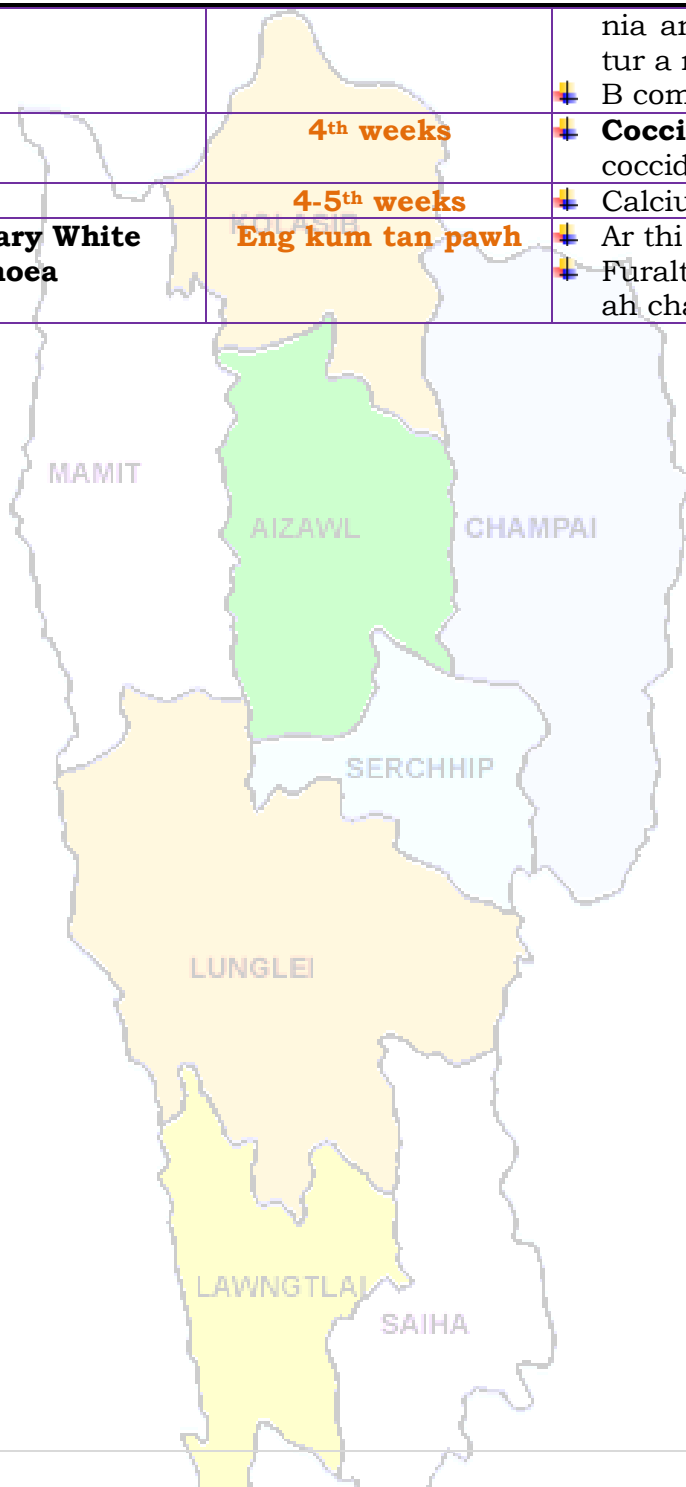
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			Lekhachhaih hi sava hlahu atan hman thin a ni bawk.
		Rice yellow stem borer KOLASIB	- A hnah hmawr tan tur. - A kung hrisel lo lai paih tur - Tui litre khatah rannung hlo Imidacloprid 0.5ml emaw phosolone 1.5ml emaw acephate 1g emaw dimethoate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

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





GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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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: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	8	61	63	0	0
Max Temp (°C)	23	21	21	22	23
Min Temp (°C)	18	18	17	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	90	90
Min RH (%)	91	92	98	67	52
Wind Speed (Kmph)	2	4	4	3	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 MONSOON- June 1-30, 2016 (Percent of deviation from normal in parenthesis)

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

Weather summary of the past three days

Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):79-92%
Minimum RH (%):68-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

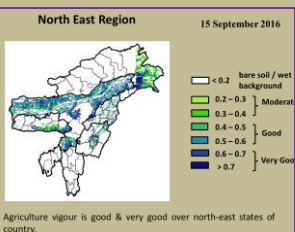
Rainfall: 18.9 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of very heavy to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 21-23°C and 15-18°C. Maximum relative humidity is expected in the range of 90-100% and minimum may from 52-92%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 132.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching

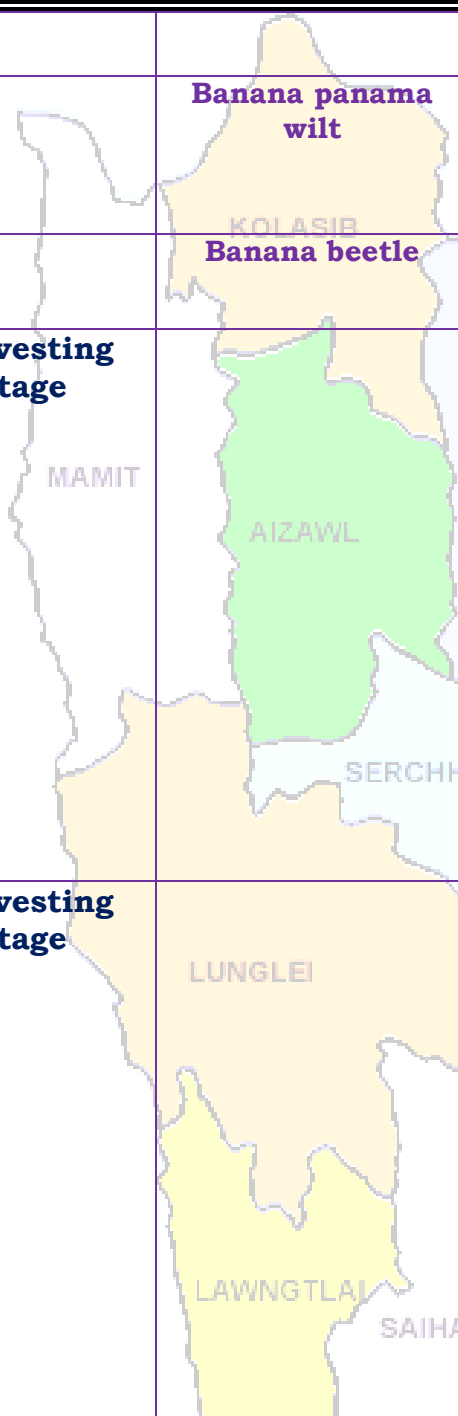


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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage		✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage		✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		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.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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



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French bean	Sowing stage	KOLASIB	at 10-15 DAS are effective. - Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Ginger and turmeric	Vegetative stage	MAMIT AIZAWL	- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.
		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif Rice	Harvesting stage	LUNGLEI	- Colour turns to green to light gold. - Harvesting of rice was done manually by leaving about 20 cm standing stubbles in the field. - Keep harvesting sample in sun for drying.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage	LAWNGTLAI SAIHA	- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in



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			furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Soybean	Vegetative stage	Zero tillage KOLASIB	- Clear base of the plant. - Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage MAMIT	- Clear base of the plant. - Earthing up soil near to plant for better support. - For French bean use bamboo for staking or support. - Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.
		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever. LUNGLEI	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). - Primary vaccination 6 month or above - Revaccination annually
Poultry	Litter management	LAWNGTLAI SAIHA	- Maintain light 12-14 hrs in brooder house. - The litter should be 7.5- 10 cm deep. - Saw dust, paddy husk or ground nut hulls can be used as litter. - Add lime with Saw dust, paddy husk or ground nut for maintain moisture.



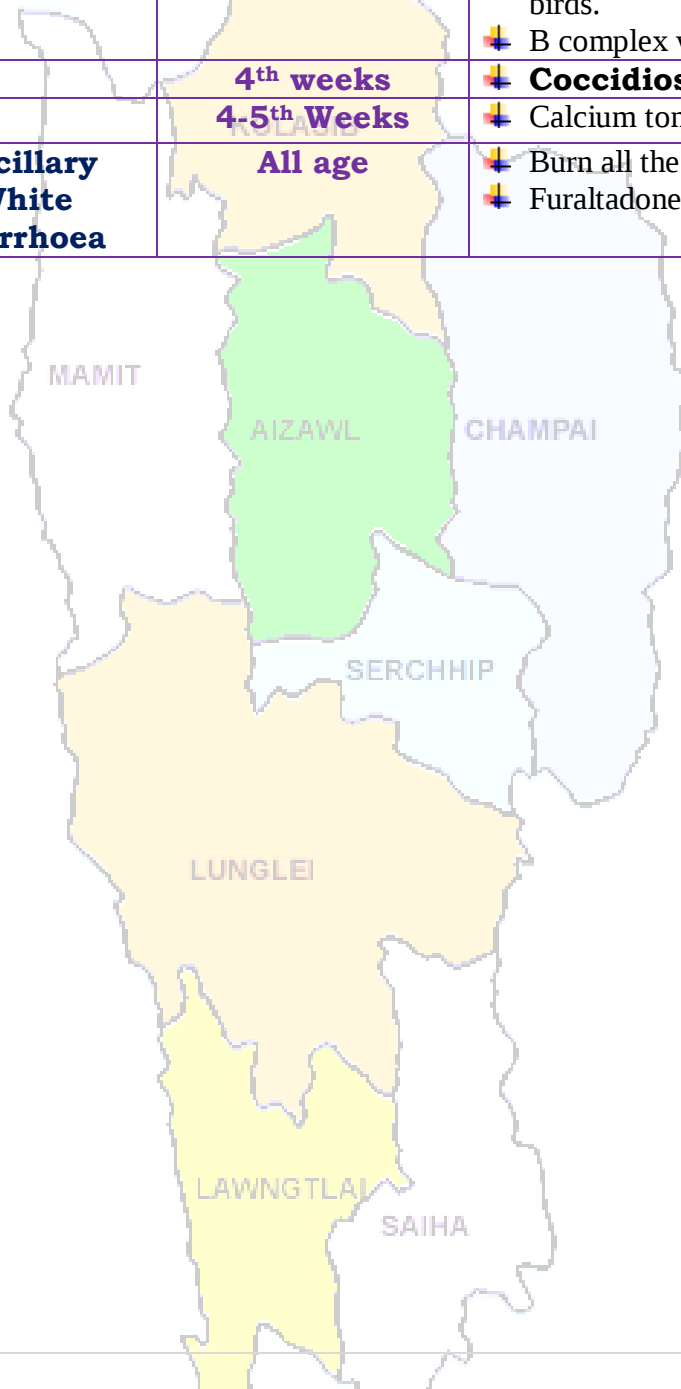
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	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B ₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaldone@ 0.5 g/litre of water for 7 days.





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District: Kolasib

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/Mizo

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	8	61	63	0	0
Max Temp (°C)	23	21	21	22	23
Min Temp (°C)	18	18	17	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	100	100	99	90	90
Min RH (%)	91	92	98	67	52
Wind Speed (Kmph)	2	4	4	3	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 MONSOON- May 1-31, 2016 (Percent of deviation from normal in parenthesis)

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

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

**05th November– 09th November, 2016
 chhunga sik leh sa dinhmun tur tlangpui**

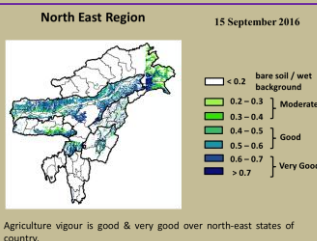
Maximum Tem. (°C):22-25°C
Minimum Tem. (°C):17-19°C
Maximum RH (%):79-92%
Minimum RH (%):68-85%
Wind Direction: Southeasterly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

Tun ni 3 chhung lo awm turah hian ruahtui tla miahlo tura beisei a ni. Khua a lum lai berin 21-23°C a ni ang a. A vawh lai berin 15-18°C ni tura beisei a ni. RH san lai berin 90-100% leh a hniam lai berin 52-92% ni tur a rin niin. Thli hi darkar khatah 2-4 km vela chakin chhaklam awi zawngin a tleh rin a ni. A tlangpuiin tun ni nga chhung hian khawthiang tak hmuh beisei a ni.

Rainfall: 18.9 mm

Weekly cumulative rainfall: 132.0mm

***/NDVI for Mizoram**



Moderately wet mildly dry/mildly wet conditions



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



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



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



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



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



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



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



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District: Lawngtlai

Period: 05 November – 09 November, 2016

Bulletin No: - 651/2016/ Bulletin/English

Date of issue: 04th November, 2016

Parameters	05.11.2016	06.11.2016	07.11.2016	08.11.2016	09.11.2016
Rainfall (mm)	9	24	31	0	0
Max Temp (°C)	27	27	26	28	28
Min Temp (°C)	18	18	19	17	17
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Mainly clear	Clear sky
Max RH (%)	97	97	96	90	90
Min RH (%)	65	55	72	65	57
Wind Speed (Kmph)	4	4	6	2	4
*Wind Direction	N-E	E	S-E	N-E	E

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

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

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

Weather summary of the past three days

Maximum Tem. (°C):20-23°C
Minimum Tem. (°C): 15-17°C
Maximum RH (%):73-90%
Minimum RH (%):60-78%
Wind Direction: Southerly
Cloud cover: Mainly cloudy
Wind speed: 2 km/hr

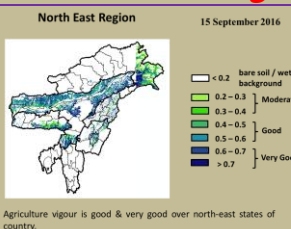
Rainfall: 16.4 mm

Weather forecast valid from 05th November, 2016 To 09th November, 2016.

There are chances of heavy to light rainfall during the next 3 days. The maximum and minimum temperatures for the next 5 days may range for 26-28°C and 17-19°C. Maximum relative humidity is expected in the range of 90-97% and minimum may from 55-75%. Wind direction would be northeasterly to easterly to southeasterly to northeasterly and easterly with the wind speed of 2-6 km per hour. Mainly cloudy sky will prevail during the next five days.

Weekly cumulative rainfall: 64.0 mm

NDVI for Mizoram



Moderately wet mildly dry/mildly wet conditions



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Main Crop / Animal / Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin and acid lime	Harvesting stage	KOLASIB MAMIT AIZAWL	- Orange is picked when colour turn to dark green to pale yellow. - Mandarins and sweet oranges normally take 240-280 days to arrive at maturity. - Mature fruits at colour break stage are picked up in 2 - 3 intervals of 10-15 days. - Limes and lemons take 150-160 days for maturity. - There may be 2 or 3 crops in a year in limes and lemons. - The cold storage conditions for long term storage for different citrus fruits are available. - Oranges may be packed in well ventilated CFB boxes - 30 cm x 30 cm x 30 cm.
		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.
Banana	Harvesting stage	LUNGLEI LAWNGTLAI SAITAI	- Change of colour from green to yellowish. - Fingers are about three quarters full i.e. 3/4 of fruit is rounded - Ridges should still be prominent on the remaining quarter of the finger. - Harvest bananas when they are swollen and green but before they become ripe (plump and yellow). - Too early (when the bananas are thin and dark green). - Too late (when they are thick and turning yellow).
		Banana Rhizome weevil	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml /l at 50% egg hatching



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			stage when 1 st instars predominate which coincides with I Fortnight of July.
		Banana panama wilt	✚ Use disease free planting material. Roughing of infected plant and destroy them. Removing of excess male buds prevent disease spread. Disinfect the farm equipments.
		Banana beetle	✚ Removal of weeds from basin ✚ Removal of unwanted sucker ✚ Application of alphamethrin @ 0.01%.
Oil plam	Harvesting stage	AIZAWL	✚ Harvest only ripe fruit bunches and collect all loose fruit using high quality harvesting equipment. ✚ The oilplam will be ready for harvest ready for harvesting in 2.5 to 3 years after the plantation in the main field. ✚ Harvesting can be done when the fruit on plam turns into yellowish to orange colour. ✚ While harvesting a stalk length of 5 cm alone should be left. Harvesting should be done at 10-12 days interval. ✚ In young plantations, we get more bunches with less bunch weight and in adult plantations the bunch weight is more but the bunch number is less.
Colocasia	Harvesting stage	LUNGLEI	✚ Leaves have started turning yellow and some of them have fallen off, signaling the time for harvesting the corms. ✚ Crop will be ready for harvest in 6-8 months after planting. ✚ One month prior to harvest, all the suckers may be wrapped around the base of the mother plant and covered with soil by earthing up, for arresting further vegetative growth and sprouting of tubers. ✚ After this, irrigation has to be withheld to hasten maturity. ✚ Harvesting is done by carefully uprooting the plants and the mother corms and cormels are separated.



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Tomato	Nursery stage	Land preparation	- Nursery preparation for tomato. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		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.
Early Cole crop	Vegetative stage		- Light hoeing and hand weeding is required to remove weeds and loosen the soil for better aeration and root development. - To produce compact head, the plant should be earthing up 4-5 weeks after transplanting. - Water should be applied at every week interval. - Heavy irrigation is avoided at the time of maturity of head to avoid cracking.
		N deficiency	- Deficiency is managed with the application of neem cake @0.4kg/m². - Apply 2% urea solution when this symptom will occur.
		P deficiency	- Deficiency is managed with the application of phosphorus based fertilizer @ 0.4kg/m². - Apply 4% DAP solution when this symptom will occur.
Onion	Nursery stage	Poly house	- Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
			- 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

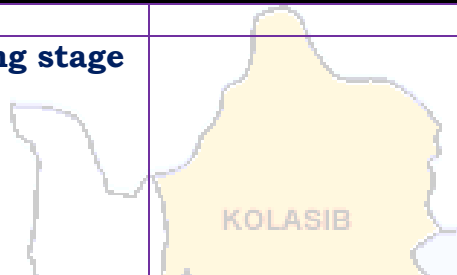
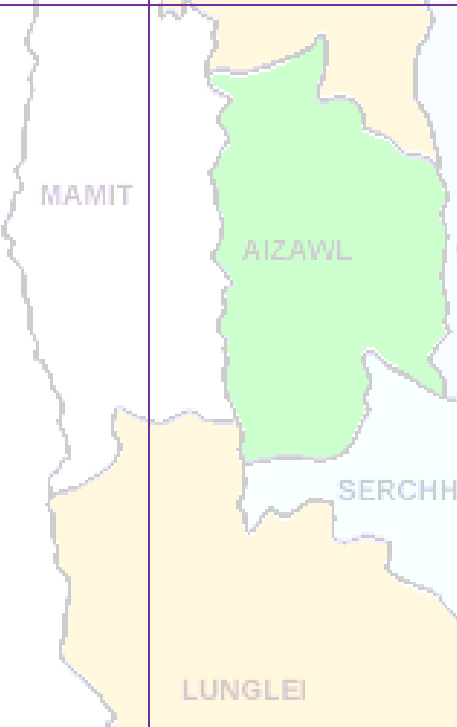


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French bean	Sowing stage		at 10-15 DAS are effective. - Variable, healthy, well mature and pure seeds should be sown. - Optimum spacing for pole type 60 cm X 30 cm. - Before sowing seed should be treated with Rhizobium vermicompost@10 t/ha.
Carrot and radish			- Carrots and radish are sown in raised beds having dimension of 1 metre breadth, any convenient length and raised from 15 to 30 cms. - In order to have an evenly sown crop the seeds are mixed with dry/ loose soil. - In this method the seeds are sown in lines with the help of a marker at a distance of 6 cms apart. - The seeds are then covered with loose and friable soil of about 2-4 cms again depending upon the rainfall and season. 90: 250: 130 Kg NPK will apply throughout the cropping season where whole quantity of Single Super Phosphate, Muriate of Potash and half the quantity of Urea is to be given as basal dose at the time of final preparation of the land.
Ginger and turmeric	Vegetative stage		- Remove unwanted plant near base of the plant and cut dead branches. - Pre-emergence application of Atrazine (Atratraf 50 wp, Gesaprim 500 fw) @ of 1.0-1.5 kg a.i ha-1 in 600 litre water, Alachlor (Lasso) @ 2-2.5 kg a.i ha-1, Metolachlor (Dual) @ 1.5-2.0 kg a.i ha-1, Pendamethalin (Stomp) @ 1-1.5 kg a.i. ha-1 large effective way for control of many annual and broad leaved weeds. - Earting up of soil along with fertilizer mixture.



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		Turmeric shoot borer	Apply insecticide like imidacloprid 0.5 ml or phosolone 1.5 ml or acephate 1.0 g or dimethoate 2 ml/lit of water.
Kharif Rice	Harvesting stage	KOLASIB	- Colour turns to green to light gold. - Harvesting of rice was done manually by leaving about 20 cm standing stubbles in the field. - Keep harvesting sample in sun for drying.
Zero tillage pea and lentil cultivation in rice fellow	Sowing stage	MAMIT AIZAWL SERCHHIP	- After harvesting of rice, pea and lentil will sow under no-till system. - The rice fields will drain at physiological maturity (one week before harvesting) to get a suitable soil condition to cultivate the rabi crops pea and lentil. - Pea and lentil will sow by opening a narrow furrow in between two rows of rice using a manual furrow opener. - A recommended dose of 30 kg N, 60 kg P₂O₅ and 40 kg K₂O/ha will apply in furrows before sowing of lentil seeds and covered the seed with soil and FYM mixture (2:1 ratio) to give a good seed-soil contact.
Soybean	Vegetative stage	Zero tillage LUNGLEI	- Clear base of the plant. - Earthing up soil near to plant for better support.
Green gram, black gram and French bean (After Pre kharif rice harvest)	Vegetative stage	Zero tillage	- Clear base of the plant. - Earthing up soil near to plant for better support. - For French bean use bamboo for staking or support. - Use split dose of fertilizer for better fruiting for French bean.
Pig	All stages	Pig disease LAWNGTLAI SAIHA	Illness in pigs characterized by dullness, in appetite, disinclination to move, rough coat with loss of bloom, constipation or diarrhoea. once the symptom are noticed, call veterinarian doctor.



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		Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	- Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Litter management		✚ Maintain light 12-14 hrs in brooder house. ✚ The litter should be 7.5- 10 cm deep. ✚ Saw dust, paddy husk or ground nut hulls can be used as litter. ✚ Add lime with Saw dust, paddy husk or ground nut for maintain moisture.
	Preventive measures	0-3rd week	✚ Ranikhet Disease- F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds. ✚ B complex with antibodies
		4th weeks	✚ Coccidiosis- Amprolium or coccidiostat
		4-5th Weeks	✚ Calcium tonic fortified with B₁₂
	Bacillary White Diarrhoea	All age	✚ Burn all the dead birds. ✚ Furaltadone@ 0.5 g/litre of water for 7 days.



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