



INTEGRATED AGROMET ADVISORY SERVICE

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: 08 -12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 7th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	5	0	0
Max Temp (°C)	30	30	26	28	28
Min Temp (°C)	14	16	16	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	95	100	99	99
Min RH (%)	48	50	67	55	63
Wind Speed (Kmph)	5	5	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- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Weather summary of the past three days		Weather forecast valid from 08 th November, 2014 To 12 th November, 2014.	
		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 26-30 ⁰ C and 14-16 ⁰ C. Maximum relative humidity is expected in the range of 95-100% and minimum may from 47-67%. Wind direction would be easterly with the wind speed of 2-5 km per hour. Dense cloudy sky will prevail during the next five days.	
		Weekly cumulative rainfall: 05.0 mm	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	- Prune the diseased and dead twigs. - Wound dressing with Bordeaux paste and



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNLAH SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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

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

**November 08, 2014 atanga November, 12, 2014
sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30°C a ni ang a. A vawh lai ber in 14-16C ni tur ah beisei a ni. RH san lai berin 95-100% leh a hniam lai berin 47-67% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 05.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease 	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawnglek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	• Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch 	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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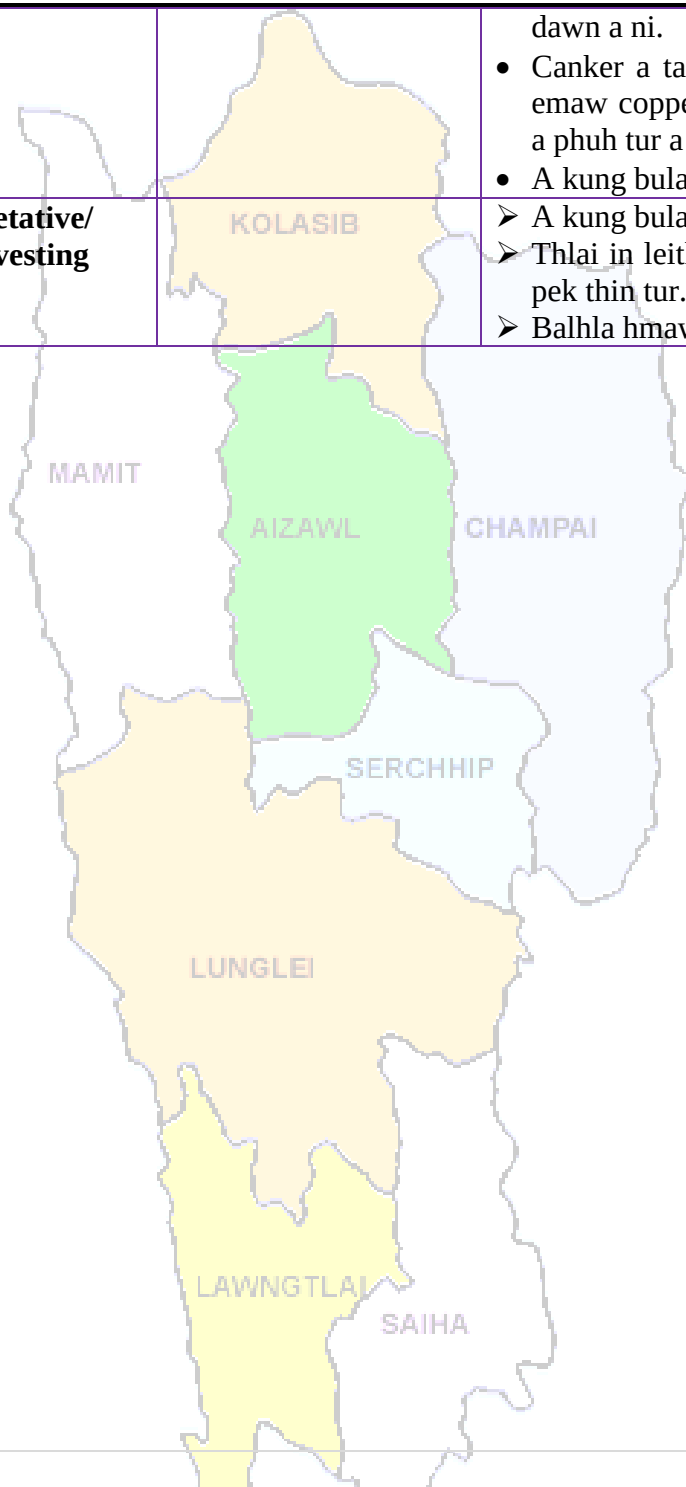
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 26-29 ⁰ C and 14-16 ⁰ C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 48-63%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Dense cloudy sky will prevail during the next five days.			
		Weekly cumulative rainfall: 04.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and		



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNTHAN SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lit or edifenphos @ 1ml/lit when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Champhai

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	4	0	0
Max Temp (°C)	29	28	26	27	28
Min Temp (°C)	14	16	16	15	14
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	98	100	100	100
Min RH (%)	48	53	63	58	59
Wind Speed (Kmph)	4	4	4	3	2
*Wind Direction	S-E	S-E	S-E	S-E	S-E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

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

**November 08, 2014 atanga November, 12, 2014
sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-29⁰C a ni ang a. A vawh lai ber in 14-16⁰C ni tur ah beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 48-63% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 04.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage		Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawng lek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	• Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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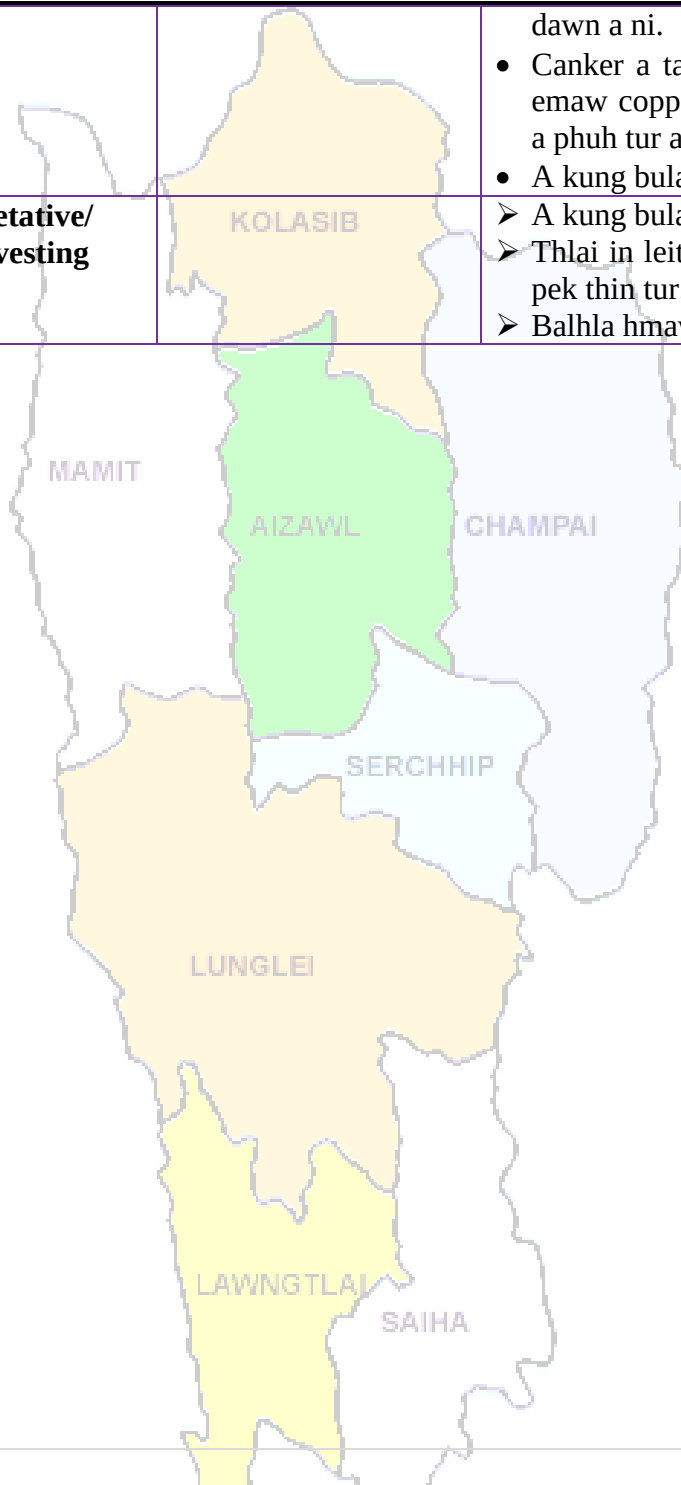
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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INTEGRATED AGROMET ADVISORY SERVICE

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Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
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District: Chhimtuipui

Period: 08 - 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 7th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	3	3	3	0	0
Max Temp (°C)	30	31	31	30	28
Min Temp (°C)	15	18	17	16	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	100	100	100
Min RH (%)	45	49	48	59	55
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E
Northerly- N , North-Easterly- N-E , Easterly- E , South-Easterly- S-E , Southerly- S , South-Westerly- S-W , Westerly- W , North-westerly- N-W .					
STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalia- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Weather summary of the past three days		Weather forecast valid from 08 th November, 2014 To 12 th November, 2014.			
		There is a chance of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 28-31 ⁰ C and 15-18 ⁰ C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 45-59%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Dense cloudy sky will prevail during the next five days. Weekly cumulative rainfall: 09.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and		



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNTHAN SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Chhimtuipui

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	3	3	3	0	0
Max Temp (°C)	30	31	31	30	28
Min Temp (°C)	15	18	17	16	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	100	100	100
Min RH (%)	45	49	48	59	55
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

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

**November 08, 2014 atanga November, 12, 2014
sik leh sa dinhmun hmuhlawk dan**

Ni 3 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-31⁰C a ni ang a. A vawh lai berin 15-18⁰C ni tur ah beisei a ni. RH san lai berin 98-100% leh a hniam lai berin 45-59% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 09.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease 	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawngkek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch 	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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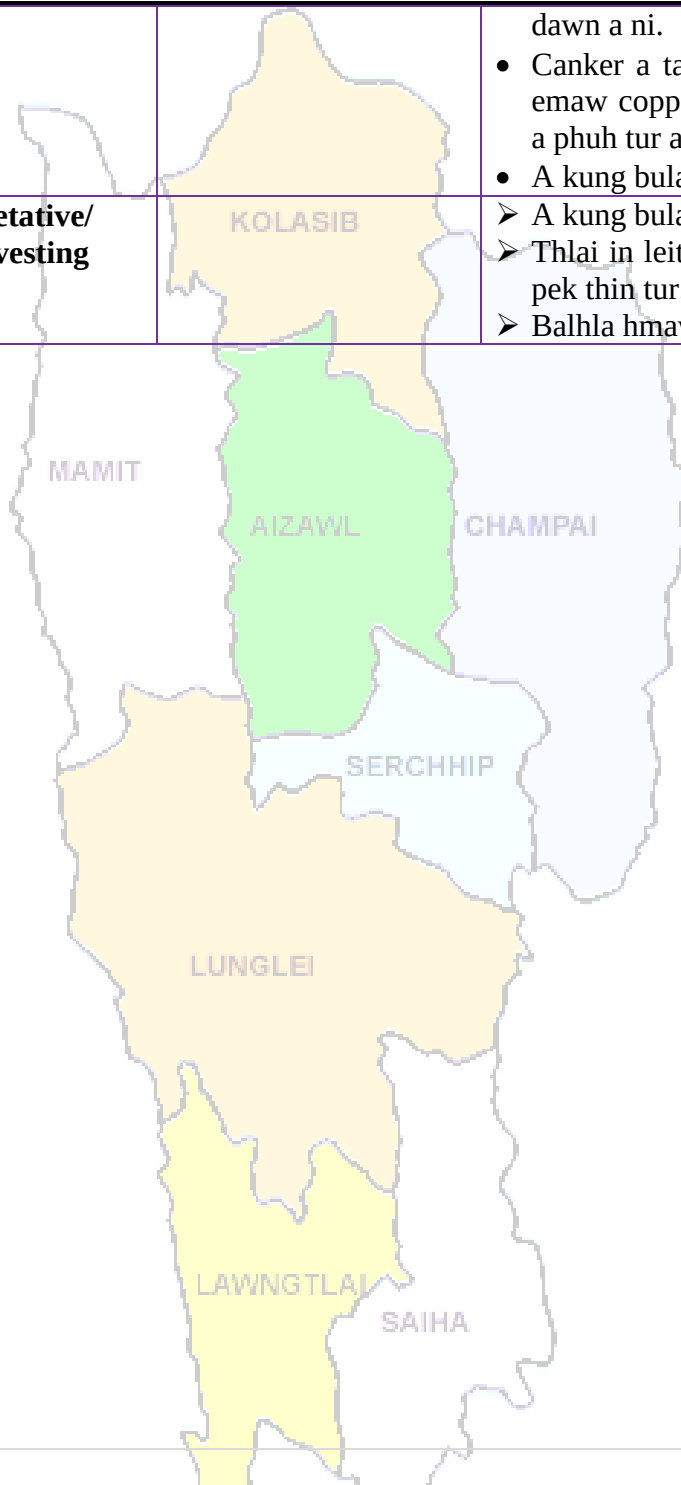
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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District: Kolasib

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	5	0	0
Max Temp (°C)	30	30	27	29	29
Min Temp (°C)	15	17	17	16	16
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	98	93	99	99	98
Min RH (%)	48	49	68	55	64
Wind Speed (Kmph)	5	6	5	4	3
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Weather summary of the past three days		Weather forecast valid from 08 th November, 2014 To 12 th November, 2014.	
The temperature range for maximum and minimum were 30.4-31.6 ⁰ C and 21.2-22.6 ⁰ C respectively. Clean sky was observed. Wind direction is easterly. Maximum RH observed 61-63% & minimum of 17-27%. Rainfall recorded for the past three days is 00.0mm.		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 27-30 ⁰ C and 15-17 ⁰ C. Maximum relative humidity is expected in the range of 93-99% and minimum may from 48-68%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Dense cloudy sky will prevail during the next five days.	
		Weekly cumulative rainfall: 05.0 mm	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	- Prune the diseased and dead twigs. - Wound dressing with Bordeaux paste and



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNLAH SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Kolasib

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	5	0	0
Max Temp (oC)	30	30	27	29	29
Min Temp (oC)	15	17	17	16	16
Cloud Coverage	Partially clear	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	98	93	99	99	98
Min RH (%)	48	49	68	55	64
Wind Speed (Kmph)	5	6	5	4	3
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Ni thum kaltha sik leh sa dinhmun tlangpui **November 08, 2014 atanga November, 12, 2014 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 30.4-31.6^oC leh a vawh lai berin 21.2-22.6^oC ani ang a. Chhum tlem a lan beisei ani. Thli tleh dan kawng zawng chu chhim thlang atangin ani a. Maximum RH san lai berin 61-63% leh a hniam lai 17-27%ani ang. Ni 3 kal ta chhung a ruah tla zat chu **00.0 mm** ani.

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 27-30^oC a ni ang a. A vawh lai ber in 15-17^oC ni tur ah beisei a ni. RH san lai berin 93-99% leh a hniam lai berin 48-68% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 05.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease 	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawnglek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch 	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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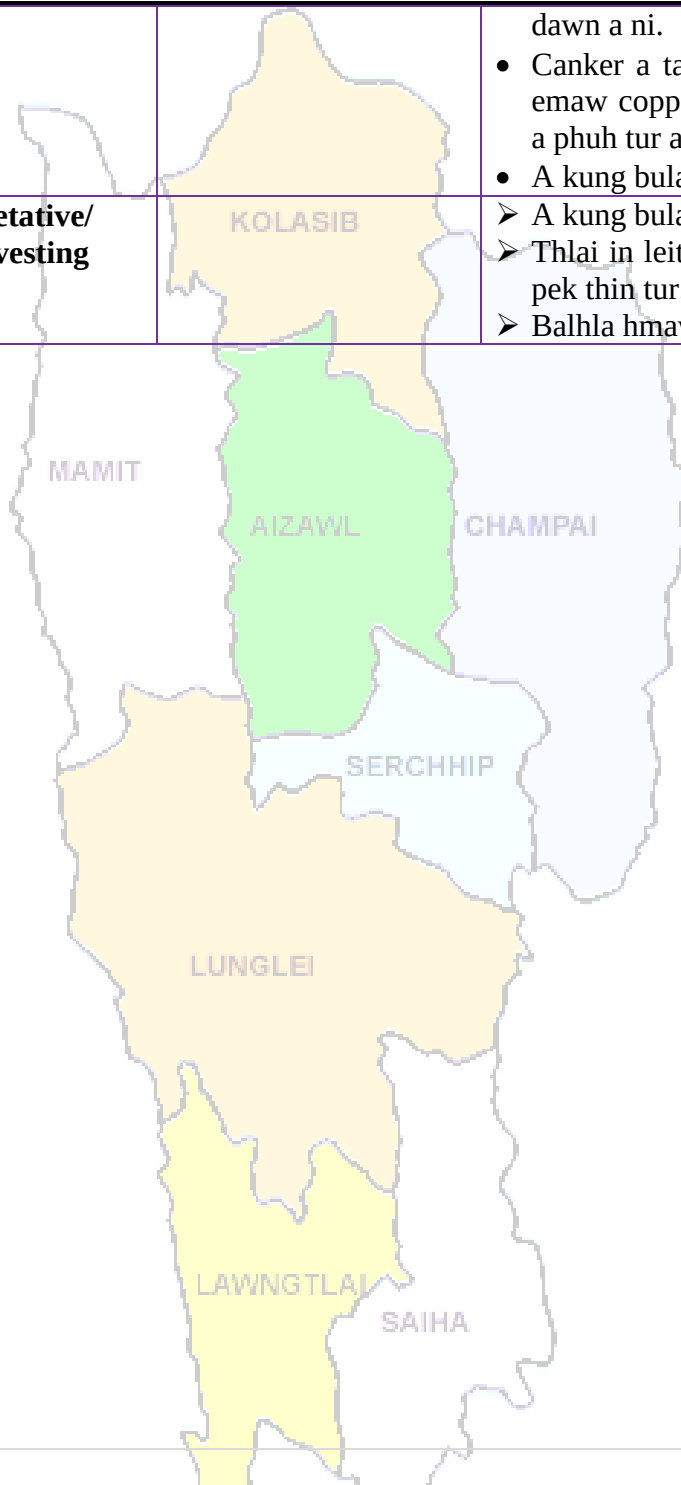
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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Mizoram Centre, Kolasib- 796081, MIZORAM
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District: Lawntalai

Period: 08 - 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	3	0	0
Max Temp (°C)	30	31	30	30	28
Min Temp (°C)	17	19	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	97	97	97	96
Min RH (%)	51	54	56	61	58
Wind Speed (Kmph)	7	6	6	4	4
Wind Direction	N-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- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalia- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Weather summary of the past three days		Weather forecast valid from 08th November, 2014 To 12th November, 2014.			
		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-31 ⁰ C and 17-19 ⁰ C. Maximum relative humidity is expected in the range of 96-98% and minimum may from 51-61%. Wind direction would be northeasterly with the wind speed of 4-6 km per hour. Dense cloudy sky will prevail during the next five days.			
		Weekly cumulative rainfall: 03.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and		



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNTHAN SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Lawngtalai

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	3	0	0
Max Temp (°C)	30	31	30	30	28
Min Temp (°C)	17	19	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	97	97	97	96
Min RH (%)	51	54	56	61	58
Wind Speed (Kmph)	7	6	6	4	4
*Wind Direction	N-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- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalai- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Ni thum kaltha sik leh sa dinhmun tlangpui		November 08, 2014 atanga November, 12, 2014 sik leh sa dinhmun hmuhlawk dan			
		Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-31 ⁰ C a ni ang a. A vawh lai ber in 17-19 ⁰ C ni tur ah beisei a ni. RH san lai berin 96-98% leh a hniam lai berin 51-61% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.			
		Weekly cumulative rainfall: 03.0mm			
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn		
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux		



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease 	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawnglek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch 	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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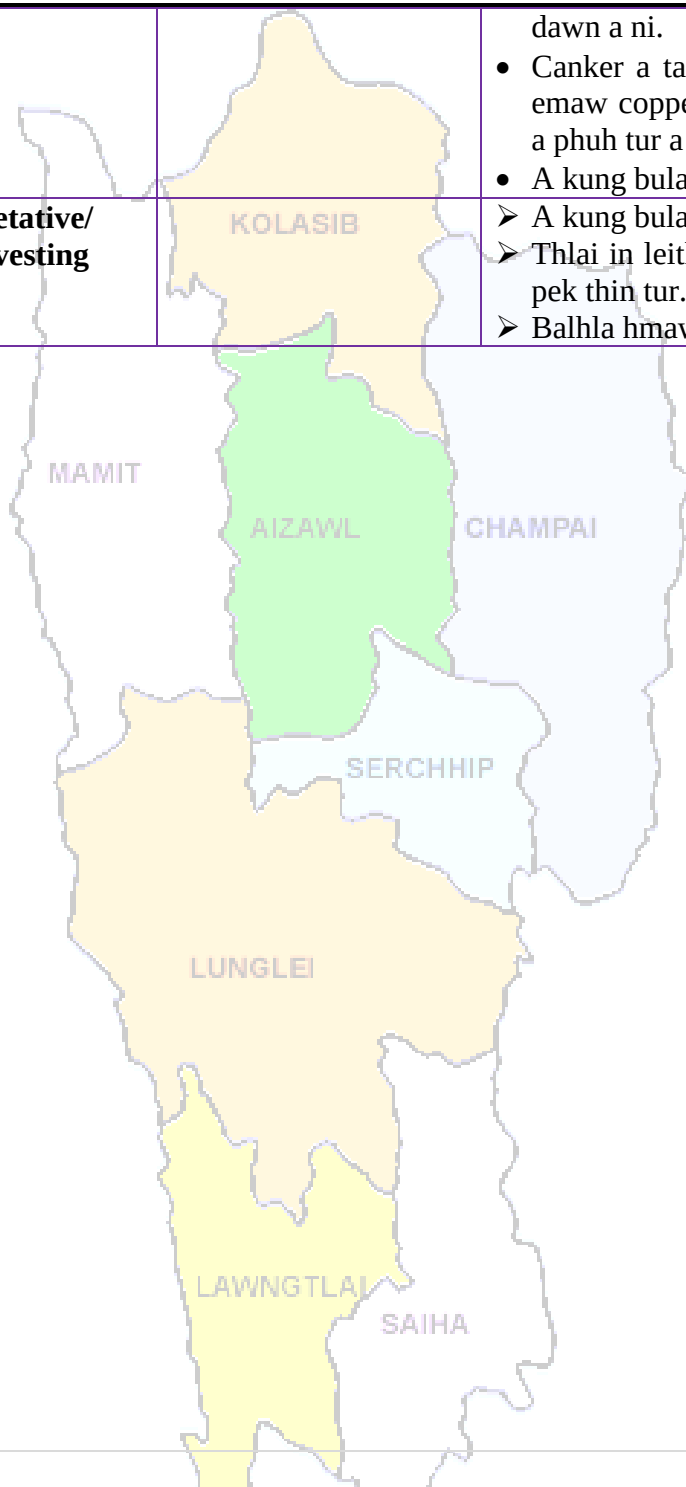
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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District: Lunglei

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	30	29	31	29
Min Temp (°C)	15	18	17	16	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	96	99	99	99
Min RH (%)	46	51	55	54	53
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Weather summary of the past three days		Weather forecast valid from 08 th November, 2014 To 12 th November, 2014.	
		There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-31 ^o C and 15-18 ^o C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 46-55%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Dense cloudy sky will prevail during the next five days.	
		Weekly cumulative rainfall: 00.0 mm	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	- Prune the diseased and dead twigs. - Wound dressing with Bordeaux paste and



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNTHAN SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Lunglei

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	30	29	31	29
Min Temp (°C)	15	18	17	16	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	96	99	99	99
Min RH (%)	46	51	55	54	53
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

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

**November 08, 2014 atanga November, 12, 2014
sik leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31⁰C a ni ang a. A vawh lai berin 15-18⁰C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 46-55% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease 	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawnglek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch 	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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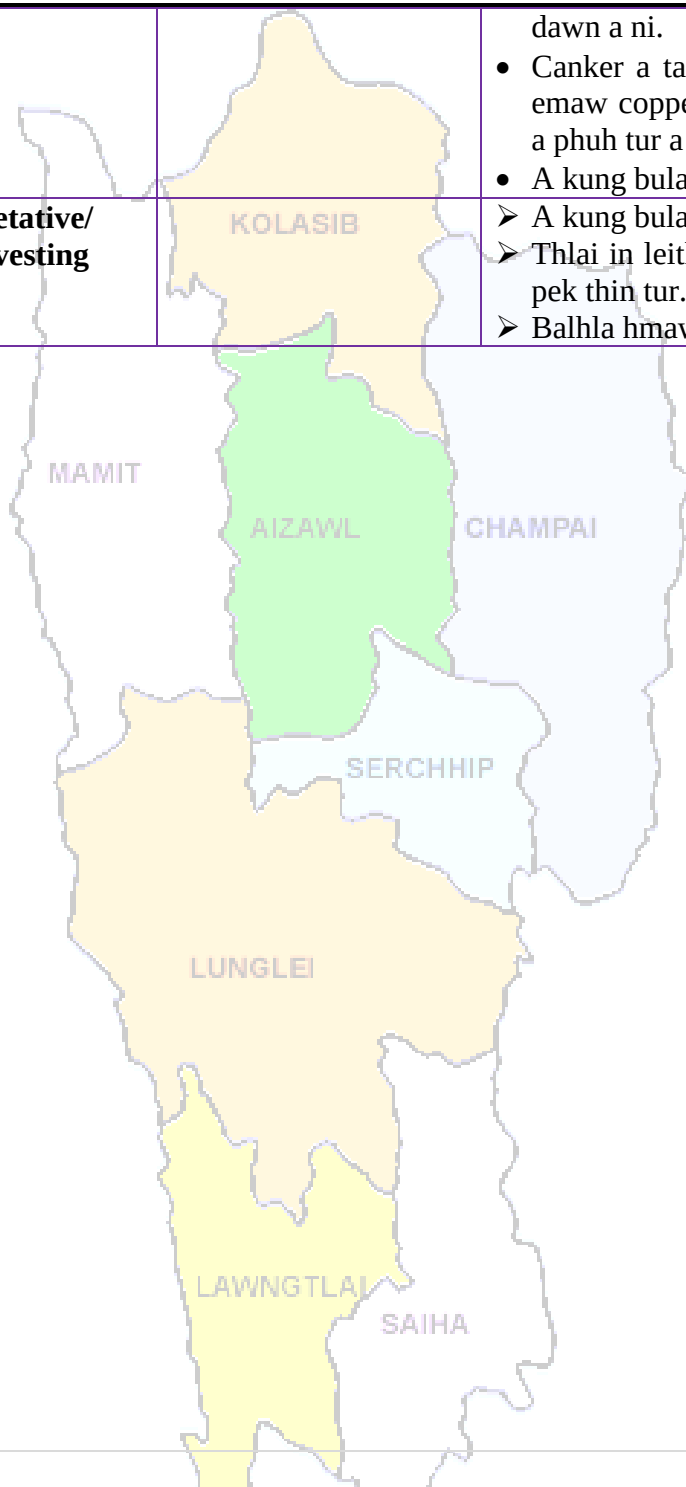
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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District: Mamit

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	5	0	0
Max Temp (°C)	30	30	26	28	29
Min Temp (°C)	16	17	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	98	93	99	99	99
Min RH (%)	53	53	74	60	63
Wind Speed (Kmph)	6	5	4	4	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- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalia- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Weather summary of the past three days		Weather forecast valid from 08th November, 2014 To 12th November, 2014.			
		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 26-30⁰C and 16-18⁰C. Maximum relative humidity is expected in the range of 93-99% and minimum may from 53-74%. Wind direction would be easterly with the wind speed of 2-6 km per hour. Dense cloudy sky will prevail during the next five days. Weekly cumulative rainfall: 05.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and		



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		LAWNTHIA SAIHA	Damping off and Blight ✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water



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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lit or edifenphos @ 1ml/lit when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	F1 vaccine at (1-6) days of birth and R₂B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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**INTEGRATED AGROMET ADVISORY
SERVICE**
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: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	0	5	0	0
Max Temp (°C)	30	30	26	28	29
Min Temp (°C)	16	17	18	17	17
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Partially clear	Mainly cloudy
Max RH (%)	98	93	99	99	99
Min RH (%)	53	53	74	60	63
Wind Speed (Kmph)	6	5	4	4	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- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalia- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Ni thum kaltha sik leh sa dinhmun tlangpui		November 08, 2014 atanga November, 12, 2014 sik leh sa dinhmun hmuhlawk dan			
		Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 26-30 ⁰ C a ni ang a.A vawh lai ber in 16-18 ⁰ C ni tur ah beisei a ni.RH san lai berin 93-99% leh a hniam lai berin 53-74% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-6 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.			
		Weekly cumulative rainfall: 05.0mm			
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn		
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux		



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage		Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawng lek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	• Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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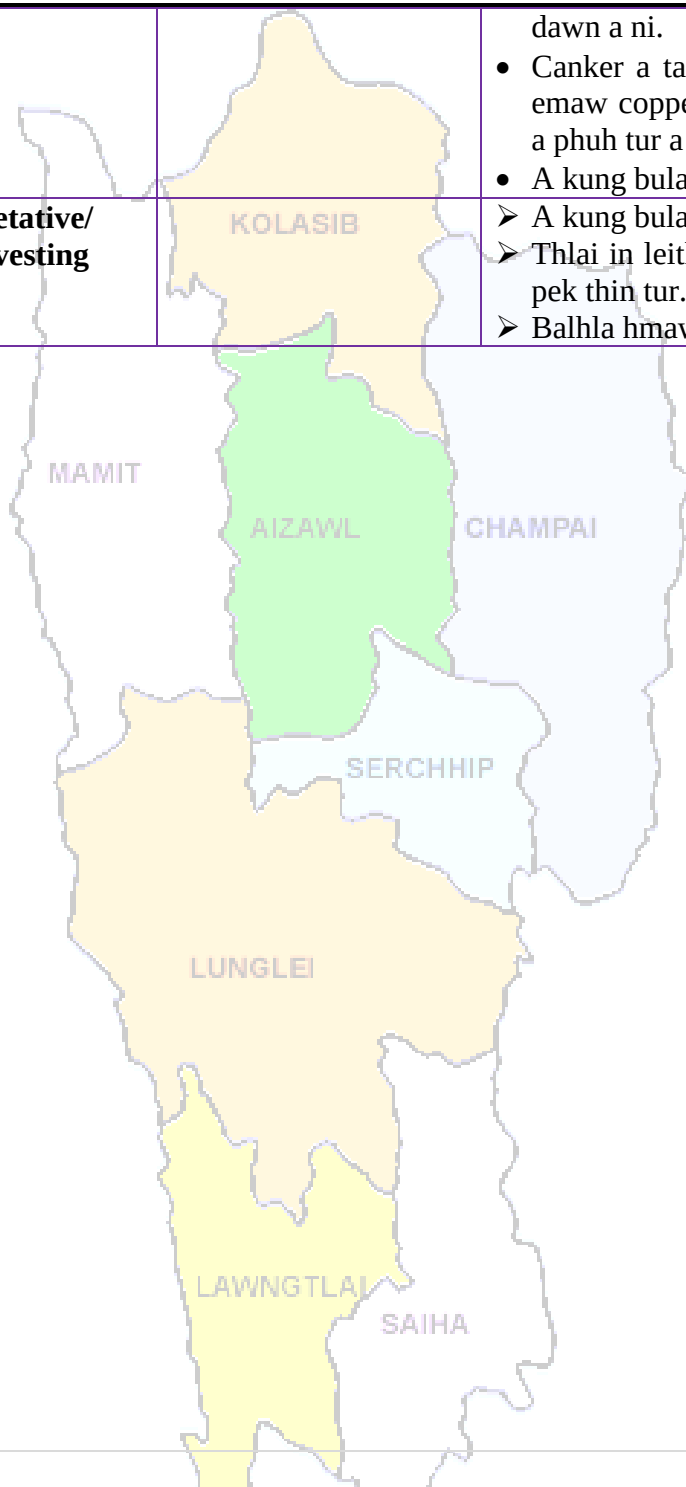
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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District: Serchhip

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/English

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
Rainfall (mm)	0	3	0	0	0
Max Temp (°C)	30	30	30	30	29
Min Temp (°C)	14	17	16	15	15
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	97	100	100	100
Min RH (%)	40	46	47	50	51
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E
Northerly- N , North-Easterly- N-E , Easterly- E , South-Easterly- S-E , Southerly- S , South-Westerly- S-W , Westerly- W , North-westerly- N-W .					
STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)					
Kolasib- 372.1mm (19.16) Champhai- 329.7mm (-28.00) Mamit-376.0 mm (-20.69) Aizawl-378.0mm (7.33) Serchhip- 166.7 mm (-32.04) Lawngtalia- 365.4 mm (-64.68) Lunglei- 371.4 mm (-16.55) Chhimtuipui- 367.8 mm (-32.04)					
Weather summary of the past three days		Weather forecast valid from 08th November, 2014 To 12th November, 2014.			
		There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-30 ⁰ C and 14-17 ⁰ C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 40-51%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Dense cloudy sky will prevail during the next five days.			
		Weekly cumulative rainfall: 03.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and		



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	- o Clean the vicinity of plants by weeding and loosen up the soil. - o Remove slips and use it as a new planting material. - o Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. - o Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	✚ The seedling should be transplant at 2 leaf stage. ✚ Distance should be (50X 70 cm) ✚ In case of dry spell use supplementary irrigation. ✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha
		Damping off and Blight LAWNTHAN SAIHA	✓ 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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			at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Plough the field 3-4 times. ✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Fertilizer application 180:50:50 kg/ha.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Sowing	LAWNGTLAI	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Pea	Sowing	KOLASIB	✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking. ✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing
Tomato	Nursery stage	Land preparation AIZAWL	✓ 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 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.
		Leaf spot and leaf blotch LUNGLEI	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer LAWNGTLAI	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug AIHA	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the



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			population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	- Judicious application of nitrogenous fertilizer. - Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
Pig	All stages	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	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Serchhip

Period: 08- 12, November, 2014

Bulletin No: -465/2014/ Bulletin/Mizo

Dated: 07th November, 2014

Parameters	08-11-2014	09-11-2014	10-11-2014	11-11-2014	12-11-2014
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Max RH (%)	100	97	100	100	100
Min RH (%)	40	46	47	50	51
Wind Speed (Kmph)	6	6	6	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- August 1-30, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Ni thum kaltha sik leh sa dinhmun tlangpui **November 08, 2014 atanga November, 12, 2014 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai ber in 14-17°C ni tur ah beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 40-51% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-6 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 05.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux



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		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuithiei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off LUNGLEI	○ Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. ○ 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage		• Hlo fai taka thlawh thin tur. • Leitha te hi a khat tawkin thlaiin a mamawh anga pek tur ani. • Tui tling leh tui tam lutuk paih chhuah tur ani a, thlai kung bula lei te chu vur pawn tur ani.
		Disease: Damping off	• Thlai chi te chu tuh hma in captan, thiram emaw chlorothalonil a chiah tur ani.
		Pest: mites and hoppers	• Sulphur hlo kahin heng rannung te hi a veng thei ani.
Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani.



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			• Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.
		Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage		Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: • Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. • Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. • Bawng lek leitha pek tur (1.5-2.0 kg/m²) • Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	• Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. • 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
		Mustard sawfly	• Nursery a a awm laiin Carbofuran 3G chu 100/m² a pek hian hemi rannung hi a vengthei ani.
Sawhthing & Aieng	Vegetative stage	Leaf spot and leaf blotch	➤ Sawhthing leh aieng hmun chu fai taka thlawh tur ani. ➤ Dithane M-45 chu tui litre khatah 2.5g emaw Bavistin chu tui litre khatah 1g in kar khat danah vawi 2/3 kah thin tur. ➤ Leaf spot tan Blitox tui litre khatah 3g a kah in a veng ve thei bawk.
Vaimim	A par lai		➤ Vaimim hmun chu thlawh fai thin tur. ➤ Urea leitha pek thin tur.
		Pest: Corn earworm	➤ Pangang in vaimim kawm a ei chuan a eichhiat te chu tan thlak a paih tur ani. ➤ Be lam chi thlai ten nen a inchhawkin chin tur ani.
		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil



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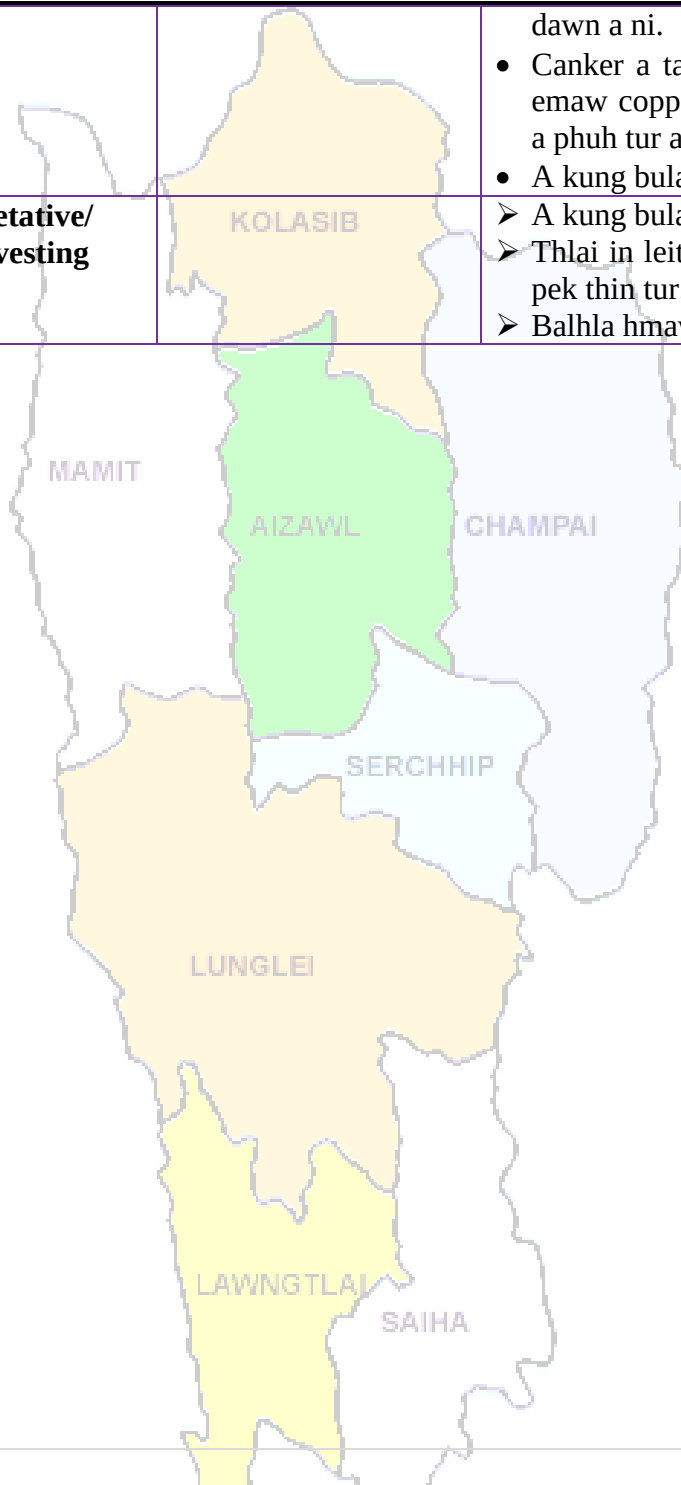
			zemkual tur. ➤ Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.
Buh	A par lai		➤ A par lain hlo vawikhat tal thlawh tur ani. ➤ Urea leitha pek tur.
		Rice stem borer	➤ A tui tihchhiat tur. ➤ Monocrotophos 20ml emaw Imidacloprid 20ml chu tui litre 10 a pawlhin kah thin tur.
		Gundhi bug	➤ Monocrotophos 36 WSC emaw Endosulfan 35 EC chu tui litre 1.5 a pawlhin kah tur. ➤ Rannung thahna hlo chu buh kung pakhata rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		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.
Ar	Kumtluanin	Ranikhet Disease.	1. Ar note an pian hlimin F ₁ vaccine pek tur a nia an puitlin hunah R ₂ B pek leh tur a ni.
		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	• A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. • Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.





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