



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: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	32	31	29
Min Temp (°C)	13	14	15	16	15
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	99	99	99	99
Min RH (%)	46	45	48	64	76
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 01st October, 2014 To 05th
October, 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 29-32^oC and 13-16^oC. Maximum relative humidity is expected in the range of 99-100% and minimum may from 45-76%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Clear 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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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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**Ni thum kaltha sik leh sa
dinhmun tlangpui**

**October 01, 2014 atanga october, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32⁰C a ni ang a. A vawh lai ber in 13-16⁰C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 45-76% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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	• 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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		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 29-31 ⁰ C and 14-17 ⁰ C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 43-77%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Clear sky weather will prevail during the next five days.			
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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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest: Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: Champhai

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	3
Max Temp (°C)	31	31	31	30	29
Min Temp (°C)	14	15	16	17	16
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	98	99	99	99	99
Min RH (%)	46	43	49	70	77
Wind Speed (Kmph)	3	2	3	2	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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31⁰C a ni ang a. A vawh lai ber in 14-17⁰C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 43-77% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 km ni tur a beisei niin. Ni nga chung 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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: Chhimtuipui

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	31	30	29
Min Temp (°C)	17	15	16	18	17
Cloud Coverage	Clear Sky	Mainly clear	Mainly clear	Partially clear	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	50	47	56	73	73
Wind Speed (Kmph)	3	2	2	2	2
Wind Direction	N-E	N-E	N-E	N-E	N-E

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

STATUS OF 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 01st October, 2014 To 05th
October, 2014.**

There is no rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-32°C and 15-18°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 47-73%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0mm

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	✓ 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	MAMIT AIZAWL CHAMPAI 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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest: Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 26th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	31	30	29
Min Temp (°C)	17	15	16	18	17
Cloud Coverage	Clear Sky	Mainly clear	Mainly clear	Partially clear	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	50	47	56	73	73
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	N-E	N-E	N-E	N-E	N-E

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

STATUS OF 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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32⁰C a ni ang a. A vawh lai ber in 15-18⁰C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 47-73% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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: Kolasib

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	32	31	30
Min Temp (°C)	15	15	16	16	15
Cloud Coverage	Clear Sky	Clear Sky	Clear Sky	Clear Sky	Clear Sky
Max RH (%)	99	98	97	99	99
Min RH (%)	44	44	46	56	72
Wind Speed (Kmph)	3	2	2	2	2
Wind Direction	E	E	E	E	S-E

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

STATUS OF 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 01 st October, 2014 To 05 th October, 2014.	
The temperature range for maximum and minimum were 29.3-31.2 ⁰ C and 20.5-22.4 ⁰ C respectively. Mainly Cloudy weather was observed. Wind direction is southeasterly. Maximum RH observed 60-77% & minimum of 20-23%. Rainfall recorded for the past three days is 15.0 mm.		There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 30-32 ⁰ C and 15-16 ⁰ C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 44-72%. Wind direction would be easterly with the wind speed of 2-3 km per hour. Clear sky will prevail during the next five days.	
		Weekly cumulative rainfall: 00.0mm	
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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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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ICAR RESEARCH COMPLEX FOR NEH REGION
Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
Guwahati)



District: Kolasib

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	32	31	30
Min Temp (°C)	15	15	16	16	15
Cloud Coverage	Clear Sky	Clear Sky	Clear Sky	Clear Sky	Clear Sky
Max RH (%)	99	98	97	99	99
Min RH (%)	44	44	46	56	72
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	E	E	E	S-E

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

STATUS OF 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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 29.3-31.2⁰C leh a vawh lai berin 20.5-22.4⁰C 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 60-77% leh a hniam lai 20-23% ani ang. Ni 3 kal ta chhung a ruah tla zat chu 15.0 mm ani.

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32⁰C a ni ang a. A vawh lai ber in 15-16⁰C ni tur ah beisei a ni. RH san lai berin 97-99% leh a hniam lai berin 45-70% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-3 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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: Lawngtalai

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 26th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	31	31	30	29
Min Temp (°C)	18	17	18	19	18
Cloud Coverage	Clear Sky	Mainly sky	Mainly sky	Partially cloudy	Mainly sky
Max RH (%)	98	98	97	97	98
Min RH (%)	55	51	59	72	72
Wind Speed (Kmph)	4	4	4	2	3
Wind Direction	N-E	N-E	N-E	N-E	N-E

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

STATUS OF 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)

**Weather summary of the past
three days**

**Weather forecast valid from 01st October, 2014 To 05th
October, 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°C and 17-19°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 51-72%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0mm

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	✓ 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	MAMIT AIZAWL CHAMPAI 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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest: Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	31	31	30	29
Min Temp (°C)	18	17	18	19	18
Cloud Coverage	Clear Sky	Mainly sky	Mainly sky	Partially cloudy	Mainly sky
Max RH (%)	98	98	97	97	98
Min RH (%)	55	51	59	72	72
Wind Speed (Kmph)	4	4	4	2	3
*Wind Direction	N-E	N-E	N-E	N-E	N-E

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

STATUS OF 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**

**October 01, 2014 atanga September, 05, 2014
sik leh sa dinhmun hmuhlawk dan**

Ni 5lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31⁰C a ni ang a. A vawh lai ber in 17-19⁰C ni tur ah beisei a ni. RH san lai berin 97-98% leh a hniam lai berin 51-72% 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: 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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: Lunglei

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	31	31	29
Min Temp (°C)	16	15	16	18	16
Cloud Coverage	Mainly clear	Clear Sky	Clear Sky	Clear Sky	Clear Sky
Max RH (%)	99	99	99	99	99
Min RH (%)	51	47	54	82	74
Wind Speed (Kmph)	4	3	2	2	2
Wind Direction	N-E	N-E	E	N-E	N-E

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

STATUS OF 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)

**Weather summary of the past
three days**

**Weather forecast valid from 01st October, 2014 To 05th
October, 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 29-32^oC and 15-18^oC. Maximum relative humidity is expected in the range of 99% and minimum may from 47-82%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0mm

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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: Lunglei

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

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

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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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-32⁰C a ni ang a.A vawh lai ber in 15-18⁰C ni tur ah beisei a ni.RH san lai berin 99% leh a hniam lai berin 47-82% 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 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.



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			• 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 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.
Lakhuithai	Vegetative stage		• 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	- o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. - o 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.



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Behlawi	Vegetative stage		• A zamna tur chu tha taka siam tur ani. • 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. • Bawngke 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.



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		Sava	➤ Sava ti hlau thei tur ni em khalh thei thil 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 chhonzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhonzawm tur a ni.
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



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			tur a veng thei bakah hlo to tur a veng bawh 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.



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District: Mamit

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 26th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	32	31	30
Min Temp (°C)	16	16	16	17	15
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	50	49	52	63	70
Wind Speed (Kmph)	2	2	2	2	2
Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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 01st October, 2014 To 05th
October, 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 30-32°C and 15-17°C. Maximum relative humidity is expected in the range of 99% and minimum may from 49-70%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Clean skywill prevail during the next five days.

Weekly cumulative rainfall: 00.0mm

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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: Mamit

Period: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	32	31	30
Min Temp (°C)	16	16	16	17	15
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	50	49	52	63	70
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- 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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-32⁰C a ni ang a.A vawh lai ber in 15-17⁰C ni tur ah beisei a ni.RH san lai berin 99% leh a hniam lai berin 49-70% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2 km ni tur a beisei niin. Ni nga chung 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/English

Dated: 30th September, 2014

Parameters	01-10-2014	02-10-2014	03-10-2014	04-10-2014	05-10-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	32	31	30	28
Min Temp (°C)	15	14	15	17	15
Cloud Coverage	Clean sky	Clean sky	Clean sky	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	47	42	50	88	79
Wind Speed (Kmph)	4	2	4	2	2
Wind Direction	E	E	E	N-E	E

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

STATUS OF MONSOON- 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 01st October, 2014 To 05th
October, 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 28-32°C and 14-17°C. Maximum relative humidity is expected in the range of 100% and minimum may from 42-88%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Moderate cloudy weather will prevail during the next five days.

Weekly cumulative rainfall: 00.0mm

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	✚ Nursery raising for offseason cucurbits.
		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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	o Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	o Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	- 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	Nursery stage	Land preparation	- Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. - Raised bed, nursery bed solarisation. - Bed should be 1m width and conventional length. - Application of FYM (1.5-2.0 kg/ m²) - Line sowing of seeds (7-10cm)
		Damping off	- Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed - Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	- Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Maize	Flowering stage		- Weeding in maize plot - Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	- Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the 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: 01-05, October, 2014

Bulletin No: -454/2014/ Bulletin/Mizo

Dated: 30th September, 2014

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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**

**October 01, 2014 atanga October, 05, 2014 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 28-32⁰C a ni ang a. A vawh lai berin 14-17⁰C ni tur ah beisei a ni. RH san lai berin 100% leh a hniam lai berin 42-88% 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 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	○ 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.
Thlasik thlai	Nursery stage	Scab and leaf blight disease Land preparation	• Natna hrik leh rannung laka him thei variety tha hman tur ani.
			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.
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		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
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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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