



**INTEGRATED AGROMET ADVISORY
SERVICE**
ICAR RESEARCH COMPLEX FOR NEH REGION
Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
Guwahati)



District: Mamit

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	5	3	4	3	0
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	21	21	21	21	21
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	77	61	65	58	59
Wind Speed (Kmph)	2	4	2	2	2
*Wind Direction	S	S-E	S-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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Ni 4 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 21⁰C ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 58-77% 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: 15.0mm

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



**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)*



		KOLASIB	diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting		➢ A kung bula tui tlingte chu paih fai tur ani. ➢ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➢ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuithiei	Vegetative stage	AIZAWL	• A kung bul vel thlawh fai a lei chawh phut tur a ni. • A pengte chu lakthlak a phun tura dah tur. • A pengte chu phun hmain lei atanga natna leh rannung laka ven nan Bavistin 10g leh Chlorpyrifos 3g chu tui litre 1 ah pawlhin chutah chuan chiah tur. • Fai taka hlo thlawh tur ani.
Cucurbits	Vegetative stage	Damping off	○ 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.



**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)



			- 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**INTEGRATED AGROMET ADVISORY
SERVICE**
ICAR RESEARCH COMPLEX FOR NEH REGION
Mizoram Centre, Kolasib- 796081, MIZORAM
(Prepared based on District wise Weather Forecast received from IMD,
Guwahati)



District: Mamit

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	5	3	4	3	0
Max Temp (°C)	30	31	31	32	32
Min Temp (°C)	21	21	21	21	21
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	77	61	65	58	59
Wind Speed (Kmph)	2	4	2	2	2
Wind Direction	S	S-E	S-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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 30-32^oC and 21^oC. Maximum relative humidity is expected in the range of 100% and minimum may from 58-77%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 15.0mm

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



**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)



			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



**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)



		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.



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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Lunglei

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	3	0	0	0
Max Temp (°C)	30	31	30	31	31
Min Temp (°C)	20	19	19	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	85	56	58	55	61
Wind Speed (Kmph)	2	2	2	2	0
*Wind Direction	S-W	S-E	S-E	N-E	E

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

STATUS OF MONSOON- 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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 30-31⁰C a ni ang a. A vawh lai berin 19-20⁰C ni tur ah beisei a ni. RH san lai berin 100% leh a hniam lai berin 58-85% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 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



**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)*



		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.



**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)



			• 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: Lunglei

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	3	0	0	0
Max Temp (°C)	30	31	30	31	31
Min Temp (°C)	20	19	19	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	85	56	58	55	61
Wind Speed (Kmph)	2	2	2	2	0
Wind Direction	S-W	S-E	S-E	N-E	E

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

STATUS OF MONSOON- 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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 30-31⁰C and 19-20⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 58-85%. Wind direction would be easterly and southeasterly with the wind speed of 0-2 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 03.0mm

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



**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)*



			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



**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)



		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.



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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Lawngtalai

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	6	0	0	0
Max Temp (°C)	29	30	30	30	29
Min Temp (°C)	21	20	20	21	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	99	99	99	99	98
Min RH (%)	73	60	62	60	78
Wind Speed (Kmph)	3	3	2	2	2
*Wind Direction	S	S-E	S-E	S-E	S-W

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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Ni 1 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30°C a ni ang a. A vawh lai berin 20-21°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 60-78% 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: 06.0mm

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



**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)*



		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.



**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)



			• 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Lawngtalai

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	6	0	0	0
Max Temp (°C)	29	30	30	30	29
Min Temp (°C)	21	20	20	21	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	99	99	99	99	98
Min RH (%)	73	60	62	60	78
Wind Speed (Kmph)	3	3	2	2	2
Wind Direction	S	S-E	S-E	S-E	S-W

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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-30⁰C and 20-21⁰C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 60-78%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 06.0mm

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



**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)



			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



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)



		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.



**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)*



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Kolasib

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	6	0	3	0	0
Max Temp (°C)	30	32	31	31	32
Min Temp (°C)	21	20	20	21	22
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	99	100	100	100
Min RH (%)	73	60	60	55	56
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	E	E	E	S	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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Khua a lum lai berin 31.0-32.5⁰C leh a vawh lai berin 21.0-22.2⁰C 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 72-89% leh a hniam lai berin 24-28% ani ang. Ni 3 kal ta chhung a ruah tla zat chu 11.2 mm ani.

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 31-32⁰C a ni ang a. A vawh lai ber in 20-22⁰C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 55-73% 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: 09.0mm

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



**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)*



		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.



**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)



			• 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. • Bawngek 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Kolasib

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	6	0	3	0	0
Max Temp (°C)	30	32	31	31	32
Min Temp (°C)	21	20	20	21	22
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	99	100	100	100
Min RH (%)	73	60	60	55	56
Wind Speed (Kmph)	2	2	2	2	2
Wind Direction	E	E	E	S	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**

The temperature range for maximum and minimum were 31.0-32.5⁰C and 21.0-22.2⁰C respectively. Mainly Cloudy weather was observed. Wind direction is northeasterly. Maximum RH observed 72-89% & minimum of 24-28%. Rainfall recorded for the past three days is 11.2 mm.

**Weather forecast valid from 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 31-32⁰C and 20-22⁰C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 55-73%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 09.0mm

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



**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)*



			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



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)



		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.



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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Chhimtuipui

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	4	3	0	0
Max Temp (°C)	29	30	30	30	29
Min Temp (°C)	20	18	18	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	73	55	57	57	79
Wind Speed (Kmph)	2	2	2	0	0
*Wind Direction	E	E	E	S-E	E

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

STATUS OF 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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Ni 2 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-30⁰C a ni ang a. A vawh lai berin 18-20⁰C ni tur ah beisei a ni. RH san lai berin 100% leh a hniam lai berin 57-79% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 07.0mm

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



**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)*



		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.



**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)



			• 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Chhimtuipui

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	0	4	3	0	0
Max Temp (°C)	29	30	30	30	29
Min Temp (°C)	20	18	18	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	73	55	57	57	79
Wind Speed (Kmph)	2	2	2	0	0
Wind Direction	E	E	E	S-E	E

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

STATUS OF 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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 29-30⁰C and 18-20⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 57-79%. Wind direction would be southeasterly with the wind speed of 0-2 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 07.0mm

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



**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)*



			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



**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)



		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.



**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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Champhai

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	13	0	0	0	0
Max Temp (°C)	29	31	31	31	31
Min Temp (°C)	20	18	18	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	99	100	99	99	99
Min RH (%)	83	59	56	56	60
Wind Speed (Kmph)	2	2	2	2	2
*Wind Direction	N-E	N-E	E	S-E	S

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**

**September 13, 2014 atanga September, 17,
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 berin 18-20⁰C ni tur ah beisei a ni. RH san lai berin 99-100% leh a hniam lai berin 56-83% 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: 13.0mm

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



**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)*



		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.



**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)



			• 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



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: Champhai

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	13	0	0	0	0
Max Temp (°C)	29	31	31	31	31
Min Temp (°C)	20	18	18	19	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	99	100	99	99	99
Min RH (%)	83	59	56	56	60
Wind Speed (Kmph)	2	2	2	2	2
Wind Direction	N-E	N-E	E	S-E	S

**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 13th September, 2014 To 17th
September, 2014.**

There is a chance of moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-31°C and 18-20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-83%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Moderate cloudy sky weather will prevail during the next five days.

Weekly cumulative rainfall: 13.0mm

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



**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)*



			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



**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)



		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.



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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	8	3	4	3	0
Max Temp (°C)	29	31	31	31	31
Min Temp (°C)	19	18	18	19	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	79	59	60	55	56
Wind Speed (Kmph)	2	3	2	2	2
*Wind Direction	E	N-E	E	S-E	S-E

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

STATUS OF 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**

**September 13, 2014 atanga September, 17,
2014 sik leh sa dinhmun hmuhlawk dan**

Ni 4 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 29-31⁰C a ni ang a. A vawh lai berin 18-20⁰C ni tur ah beisei a ni. RH san lai berin 100% leh a hniam lai berin 55-79% 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: 18.0mm

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



**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)*



		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.



**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)



			- 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



**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)*



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	8	3	4	3	0
Max Temp (°C)	29	31	31	31	31
Min Temp (°C)	19	18	18	19	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	79	59	60	55	56
Wind Speed (Kmph)	2	3	2	2	2
*Wind Direction	E	N-E	E	S-E	S-E

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

STATUS OF 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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 29-31⁰C and 18-20⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 55-79%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Moderate cloud cover will prevail during the next five days.

Weekly cumulative rainfall: 18.0 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



**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)



			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



**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)



		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.



**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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Serchhip

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/Mizo

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	29	30	30	31	31
Min Temp (°C)	19	17	17	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	91	52	52	51	55
Wind Speed (Kmph)	0	0	0	2	0
*Wind Direction	S-W	S-E	S-E	N	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**

**September 13, 2014 atanga September, 17,
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 berin 17-19⁰C ni tur ah beisei a ni. RH san lai berin 100% leh a hniam lai berin 51-91% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 0-2 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 04.0mm

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



**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)*



		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.



**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)



			• 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



**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)



			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



**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)*



			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.





**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com



**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: Serchhip

Period: 13-17 September, 2014

Bulletin No: -449/2014/ Bulletin/English

Dated: 12th September, 2014

Parameters	13-09-2014	14-09-2014	15-09-2014	16-09-2014	17-09-2014
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	29	30	30	31	31
Min Temp (°C)	19	17	17	18	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	91	52	52	51	55
Wind Speed (Kmph)	0	0	0	2	0
Wind Direction	S-W	S-E	S-E	N	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 13th September, 2014 To 17th
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-31⁰C and 17-19⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 51-91%. Wind direction would be south-easterly with the wind speed of 0-2 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 04.0mm

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



**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)*



			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



**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)



		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.



**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)



		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



**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)*



Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
Dr. Saurav Saha	:	Scientist (Agril. Physics)	sauravs.saha@gmail.com
Dr. T. Boopathi	:	Scientist (Agril Entomology)	boopathiars@gmail.com
Dr. Sudip Kumar Dutta	:	Scientist (Hort.)	sudipiari@rediffmail.com
Dr. A. Ratankumar Singh	:	Scientist (Plant Pathology)	ratanplantpatho@gmail.com
Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishnaiari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

Collaborating Department:

Dr. Lalmuanzovi	:	PC KVK Lunglei	kvklunglei@gmail.com kvknahtial@gmail.com
Mr. C. Lalthlamuana	:	PC KVK, Kolasib	kvkkolasib@gmail.com
Mrs. Lalnunpui Parte	:	PC KVK, Serchhip	Mmami997@yahoo.com kvkserchhip@gmail.com
Ms. Lalrinawnri Renthlei	:	PC KVK, Champhai	pckvkkhawzawl@rediffmail.com
Mr. Lalrosanga Khiangte	:	PC KVK, Lawngtlai	vv19@rediffmail.com kvklawngtlai@rediffmail.com
Ms. C. Racheal	:	PC KVK, Saiha	kvksaiha@gmail.com rachoza@gmail.com
Mr. Vanlalhruaia Hnamte	:	PC KVK, Mamit	kvkmamit@yahoo.in
Dr. K. P. Chaudhary	:	PC KVK, Aizawl	Kpchy@rediffmail.com kvkaizawl@rediffmail.com