



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Aizawl

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	25	24	22	22	24
Min Temp (°C)	7	7	3	3	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	100	100	100	100
Min RH (%)	37	48	32	30	27
Wind Speed (Kmph)	3	3	3	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

Weather summary of the past three days

Weather forecast valid from 17th January, 2015 To 21st January, 2015.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 22-25°C and 3-7°C. Maximum relative humidity is expected in the range of 97-100% and minimum may from 27-48%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and 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.



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			• 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. ✓ Provide irrigation to the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	BERCHHIP LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-25°C a ni ang a. A vawh lai ber in 3-7°C ni tur ah beisei a ni. RH san lai berin 97-100% leh a hniam lai berin 27-48% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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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. ✓ Provide irrigation in the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the field.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation in the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Champhai

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/Mizo

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	24	23	22	22	23
Min Temp (°C)	6	6	4	4	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	99	99	98	98
Min RH (%)	38	55	38	33	31
Wind Speed (Kmph)	3	4	4	4	4
*Wind Direction	5	S	S-E	S-E	S-E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

January 17, 2015 atanga January 21, 2015 sik leh sa dinhmun hmuhlawk dan

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-24°C a ni ang a. A vawh lai ber in 4-6°C ni tur ah beisei a ni. RH san lai berin 98-99% leh a hniam lai berin 31-55% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 3-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 pakhat 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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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District: Chhimtuipui

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	25	23	23	25
Min Temp (°C)	9	8	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	94	96	93	90	92
Min RH (%)	27	46	28	25	22
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

Weather summary of the past three days

Weather forecast valid from 17th January, 2015 To 21st January, 2015.

There is no chance of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-27°C and 4-9°C. Maximum relative humidity is expected in the range of 92-96% and minimum may from 22-46%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

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 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.



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			• 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. ✓ Provide irrigation to 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	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation to the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding to the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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



District: Chhimtuipui

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/Mizo

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	25	23	23	25
Min Temp (°C)	9	8	5	5	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	94	96	93	90	92
Min RH (%)	27	46	28	25	22
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 23-27⁰C a ni ang a.A vawh lai ber in 4-9⁰C ni tur ah beisei a ni.RH san lai berin 92-96% leh a hniam lai berin 22-46% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4 km ni tur a beisei niin. Ni nga chung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 pakhat 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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	24	23	25
Min Temp (°C)	9	7	5	5	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	93	96	95	95	94
Min RH (%)	40	45	33	31	28
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

Weather summary of the past three days

The temperature range for maximum and minimum were 26.2-27.1⁰C and 16.1-17.2⁰C respectively. Clear sky was observed. Wind direction is easterly. Maximum RH observed 58-60% & minimum of 21-26%. Rainfall recorded for the past three days is 00.0mm.

Weather forecast valid from 17th January, 2015 To 21st January, 2015.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-26⁰C and 5-9⁰C. Maximum relative humidity is expected in the range of 93-95% and minimum may from 28-45%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

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 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.



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			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. ✓ Provide irrigation to 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	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant. 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
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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)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
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Miss. Malsawmzuali	:	Research Associate (Mizo language Translator)	mamamralte@yahoo.com

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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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Kolasib

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/Mizo

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	24	23	25
Min Temp (°C)	9	7	5	5	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	93	96	95	95	94
Min RH (%)	40	45	33	31	28
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

Ni thum kaltha sik leh sa dinhmun tlangpui

January 17, 2015 atanga January 21, 2015 sik leh sa dinhmun hmuhlawk dan

Khua a lum lai berin 26.2-27.1⁰C leh a vawh lai berin 16.1-17.2⁰C 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 observed 58-60% leh a hniam lai 21-26% ani ang. Ni 3 kal ta chhung a ruah tla zat chu **00.0 mm** ani.

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 23-26⁰C a ni ang a. A vawh lai ber in 5-9⁰C ni tur ah beisei a ni. RH san lai berin 93-95% leh a hniam lai berin 28-45% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 pakhat 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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawngtalai

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	26	24	24	26
Min Temp (°C)	10	9	6	6	6
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	90	88	90	86	87
Min RH (%)	30	44	27	26	23
Wind Speed (Kmph)	4	4	4	4	5
*Wind Direction	N-E	E	N-E	N-E	N-E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Champhai- 0.00 mm (0.00mm)	Mamit-0.00 mm (0.00mm)	Aizawl-0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Lawngtalai-0.00mm (0.00mm)	Lunglei-0.00mm (0.00mm)	Chhimtuipui-0.00mm (0.00mm)

Weather summary of the past three days

Weather forecast valid from 17th January, 2015 To 21st January, 2015.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-28⁰C and 6-10⁰C. Maximum relative humidity is expected in the range of 86-90% and minimum may from 23-44%. Wind direction would be northeasterly with the wind speed of 4-5 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	• Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and 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.



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			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. ✓ Provide irrigation to 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	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Lawntalai

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/Mizo

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	26	24	24	26
Min Temp (°C)	10	9	6	6	6
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	90	88	90	86	87
Min RH (%)	30	44	27	26	23
Wind Speed (Kmph)	4	4	4	4	5
*Wind Direction	N-E	E	N-E	N-E	N-E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 24-28°C a ni ang a. A vawh lai ber in 6-10°C ni tur ah beisei a ni. RH san lai berin 86-90% leh a hniam lai berin 23-44% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 4-5 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

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



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



			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.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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District: Lunglei

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	25	23	23	25
Min Temp (°C)	8	7	3	4	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	98	97	97
Min RH (%)	29	49	27	25	24
Wind Speed (Kmph)	2	2	3	4	4
*Wind Direction	E	E	N-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- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

**Weather summary of the past
three days**

**Weather forecast valid from 17th January, 2015 To 21st
January, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-27°C and 3-7°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 24-49%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

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 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.



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			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. ✓ Provide irrigation to 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	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

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Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 23-27⁰C a ni ang a.A vawh lai berin 3-7⁰C ni tur ah beisei a ni.RH san lai berin 97-98% leh a hniam lai berin 24-49% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



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 pakhat 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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



District: Mamit

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	26	25	24	25
Min Temp (°C)	9	7	5	5	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	99	99	99	99
Min RH (%)	38	45	30	29	28
Wind Speed (Kmph)	2	2	3	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

**Weather summary of the past
three days**

**Weather forecast valid from 17th January, 2015 To 21st
January, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-27°C and 5-9°C. Maximum relative humidity is expected in the range of 97-99% and minimum may from 28-45%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

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 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.



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			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. ✓ Provide irrigation to 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	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation to the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage	AIZAWL	🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation to the plant. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage	LAWNGTLAI	✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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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)	ramakrishna_iari@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



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District: Mamit

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Date of issue: 16th January, 2015

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 24-27⁰C a ni ang a.A vawh lai ber in 5-9⁰C ni tur ah beisei a ni.RH san lai berin 97-99% leh a hniam lai berin 28-45% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawh chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawh



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thuah thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 pakhat rannung pakhat zel a awmin kah tur ani.
		Leaf blast	➤ Leitha te hi thlai mamawh tawk chauh pek tur. ➤ Triclozole (Beam) 0.5gm emaw Edifenphos 1ml chu tui litre 1 a pawlhin a natna hmuh veleh kah tur ani.
Vawk	Kumtluanin	Porcine Reproductive Respiratory Syndrome (PRRS).	1. A natna vei vawk te chu thah a phum tur a ni.
		Swine fever.	2. Vawk thla hnih a nihin SF vaccine pek tur a ni a, he vaccine hi thla ruk emaw kumtluanin pek chhunzawm tur
Bawng	Kumtluanin	Foot and Mouth Disease (FMD)	• Thla16 a upa an rih in FMD vaccine pek tur a nia, thla 6 danah pek chhunzawm tur a ni.
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		Coccidiosis	2. Amprolium emaw coccidiostat pek tur.
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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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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



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District: Serchhip

Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/English

Date of issue: 16th January, 2015

Parameters	17.01.2015	18.01.2015	19.01.2015	20.01.2015	21.01.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	24	22	22	24
Min Temp (°C)	7	7	2	2	3
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	28	52	29	25	24
Wind Speed (Kmph)	2	2	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

**Weather summary of the past
three days**

**Weather forecast valid from 17th January, 2015 To 21st
January, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 22-26⁰C and 2-7⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 24-52%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

Weekly cumulative rainfall: 00.0 mm

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 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.



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			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. ✓ Provide irrigation in the base. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL	- 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/lit of water to protect against soil borne disease and insect. - o Weeding and intercultural operation. - o Provide irrigation in the plant.
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	- Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit. - In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m. - Polythene nursery raising can be done/ initiate
		Damping off and Blight	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage		❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation if require.
		Disease: Damping off-	○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	○ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		🌈 Trilling into bower structure. 🌈 Weeding near the plant 🌈 Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Card formation stage	❖ Application of Nitrogenous fertilizer urea in card formation stage. ❖ Provide irrigation if require. ❖ Weeding near the plant.
		Damping off	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Mustard and toria	Flowering stage		○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation in the plant.
		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.
		Leaf spot and leaf blotch	- o Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. - o Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Rice	Harvesting stage		✓ Harvest rice crop ✓ Cut residue 20 cm from the base. ✓ Open the furrow with the help of furrow opener. ✓ Place FYM and fertilizer. ✓ Place the seed and cover by soil.
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
Dr Y. Ramakrishna	:	Farm manager (T-6)	ramakrishna_iari@rediffmail.com
Mr. Samik Chowdhury	:	Technical Officer	samikchowdhury33@gmail.com
Mr. Evans Syiem	:	Meteorological Observer	evansmeteo@gmail.com
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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



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Period: 17 – 21, January, 2015

Bulletin No: -484/2015/ Bulletin/Mizo

Date of issue: 16th January, 2015

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Max RH (%)	100	100	100	100	100
Min RH (%)	28	52	29	25	24
Wind Speed (Kmph)	2	2	4	4	4
*Wind Direction	E	E	E	E	E

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

STATUS OF MONSOON- December 1-31, 2014 (Percent of deviation from normal in parenthesis)

Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)	Kolasib- 0.00 mm (0.00mm)
Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)	Serchhip-0.00mm (0.00mm)

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

**January 17, 2015 atanga January 21, 2015 sik
leh sa dinhmun hmuhlawk dan**

Ni 5 lo awm turah hian ruahtui a tlak beisei a ni. Khua a lum lai berin 22-26°C a ni ang a.A vawh lai ber in 2-7°C ni tur ah beisei a ni.RH san lai berin 100% leh a hniam lai berin 24-52% ni tur a beisei niin. Thli tleh dan kawng zawng chu chhimchhak lam atangin a nat zawng chu darkar 2-4 km ni tur a beisei niin. Ni nga chhung lo awm tur ah hian chhum tlem a lan beisei a ni.

Weekly cumulative rainfall: 00.0mm

Thlai/ ran /sangha	Spat zawng	Hmalakna tur/ rannung leh/ natna hrik awm thei te	Agricultural/Horticultural/ animal husbandry atana thurawn
Serthlum	Vegetative stage	Canker	- A zar ro leh natna awm ang chi reng reng chu thlak tur a ni. - Tin a kungah pem a awm chuan Bordeaux diak tah tur a ni. Hnim ro in a kung bul vel kan khuh bawk chuan tui hu tam tak kal ral tur a veng thei bakah hlo to tur a veng bawk



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			dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g a phuh tur a ni. • A kung bula tui tlingte chu paih fai tur ani.
Balhla	Vegetative/ harvesting	KOLASIB	➤ A kung bula tui tlingte chu paih fai tur ani. ➤ Thlai in leitha a mamawh ang te a hunbi ah pek thin tur. ➤ Balhla hmawr/tumbu a ro in seng tur ani.
Lakhuihthei	Vegetative stage	MAMIT 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 SERCHHIP	o Thlai chi chu tuh hma in Thiram 3g/kg emaw Trichoderma viride 4g leh Metalaxyl 4g (Apron) a chiah hmasak tur ani. o 1% Bordeaux mixture emaw 2g Captan emaw 3litre Copper oxychloride chu tui litre 1 zela pawlhin, thlai phun hnu ni 10-15 ah lei thua thin tur ani.
Bawkbawn	Vegetative stage	LUNGLEI	• 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	SAIHA	• A zamna tur chu tha taka siam tur ani. • Hlo fai taka thlawh tur. • Thlai kung bul te chu lei in vur pawn a tui tling theilo tura sawngbawl tur ani.



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		Scab and leaf blight disease	Natna hrik leh rannung laka him thei variety tha hman tur ani.
Thlasik thlai	Nursery stage	Land preparation	Zikhlum, parbawr, broccoli leh knolkhol tana nursery siam dan tur: - Nursery siamna tur hmun hi ni kang tha taka pho hmasak tur ani. - Nursery bed siam nan a vang meter 1 leh a dung zawng chu kan duh anga sei in siam thin tur a ni. - Bawngkek leitha pek tur (1.5-2.0 kg/m²) - Thlai chi chu a line a tuh tur (7-10 cm)
		Damping off	- 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 zemkual tur. - Sava ti hlau thei tur ri bengchheng siam thei hmanrua hman tur.



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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 pakhat 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 dawn a ni. • Canker a tan bik chuan streptomycin 2g/l emaw copper oxychloride tui litre 10 ah 8g



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





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Expert committee members:

Dr. S.B. Singh	:	Joint Director	basantasinghsoibam@rediffmail.com
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Dr. L. H. Puii	:	Scientist (Vet. Microbiology)	lpuii@gmail.com
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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