



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



**District:** Aizawl

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	30	31	29	29
Min Temp (°C)	20	20	20	19	20
Cloud Coverage	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly clear	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	64	59	56	72	71
Wind Speed (Kmph)	3	2	2	2	2
*Wind Direction	E	N-E	E	S-E	S-E

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

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

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

Weather summary of the past three days		Weather forecast valid from 10 <sup>th</sup> September, 2014 To 14 <sup>th</sup> September, 2014.	
		There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 29-31 <sup>0</sup> C and 19-20 <sup>0</sup> C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-72%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Moderate cloud cover will prevail during the next five days.	
		<b>Weekly cumulative rainfall: 00.0 mm</b>	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>Prune the diseased and dead twigs.</li> <li>Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat





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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Serchhip

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	30	30	30	28	28
Min Temp (°C)	19	19	20	18	19
Cloud Coverage	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	54	54	52	72	74
Wind Speed (Kmph)	0	0	2	0	2
Wind Direction	N-E	N-E	E	S	S-E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 28-30°C and 18-20°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 52-74%. Wind direction would be north-easterly with the wind speed of 0-2 km per hour. Clean sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 00.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>Prune the diseased and dead twigs.</li> <li>Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAPRA SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.





# INTEGRATED AGROMET ADVISORY SERVICE

## ICAR RESEARCH COMPLEX FOR NEH REGION

**Mizoram Centre, Kolasib- 796081, MIZORAM**  
(Prepared based on District wise Weather Forecast received from IMD,  
Guwahati)



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Mamit

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	31	31	31	31
Min Temp (°C)	21	21	22	21	22
Cloud Coverage	Mainly clear	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	99	99	100	99	100
Min RH (%)	65	61	58	69	69
Wind Speed (Kmph)	4	2	2	2	2
Wind Direction	E	N-E	E	S-E	S-E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 31<sup>0</sup>C and 21-22<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 58-69%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clean sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 00.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>





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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Lunglei

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	30	30	30	29	29
Min Temp (°C)	20	20	21	20	20
Cloud Coverage	Mainly clear	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	99	100	100	100	100
Min RH (%)	59	58	57	70	73
Wind Speed (Kmph)	0	2	2	2	2
Wind Direction	E	E	E	S	S-E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-30<sup>0</sup>C and 20-21<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 57-73%. Wind direction would be easterly and southeasterly with the wind speed of 0-2 km per hour. Clean sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 03.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>Prune the diseased and dead twigs.</li> <li>Wound dressing with Bordeaux paste and</li> </ul>





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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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





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



**District:** Lawngtalai

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	4	0	0	0	0
Max Temp (°C)	29	30	30	29	29
Min Temp (°C)	21	21	21	21	21
Cloud Coverage	Mainly clear	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	98	98	98	98	99
Min RH (%)	67	62	62	71	79
Wind Speed (Kmph)	2	3	4	2	3
Wind Direction	E	E	E	S-E	S-E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 29-30<sup>0</sup>C and 21<sup>0</sup>C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 62-79%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clean sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 04.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>Prune the diseased and dead twigs.</li> <li>Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>• F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat





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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Kolasib

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	31	31	31	30	30
Min Temp (°C)	21	21	21	21	22
Cloud Coverage	Mainly clear	Mainly clear	Mainly clear	Mainly cloudy	Mainly clear
Max RH (%)	99	99	99	99	100
Min RH (%)	64	59	56	70	69
Wind Speed (Kmph)	4	2	2	2	2
Wind Direction	E	E	E	S	S-E

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

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

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

**Weather summary of the past  
three days**

The temperature range for maximum and minimum were 30.0-31.0°C and 23.0-23.2°C respectively. Mainly Cloudy weather was observed. Wind direction is northeasterly. Maximum RH observed 78-87% & minimum of 25-30%. Rainfall recorded for the past three days is 173.2 mm.

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

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 30-31°C and 21-22°C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-70%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Moderate cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 00.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>Prune the diseased and dead twigs.</li> <li>Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.





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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Chhimtuipui

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	29	30	30	29	28
Min Temp (°C)	20	20	20	19	19
Cloud Coverage	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	100	100	100	100	100
Min RH (%)	63	58	58	71	82
Wind Speed (Kmph)	0	2	2	2	2
Wind Direction	E	E	E	S-E	E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 28-30<sup>0</sup>C and 19-20<sup>0</sup>C. Maximum relative humidity is expected in the range of 100% and minimum may from 58-82%. Wind direction would be southeasterly with the wind speed of 0-2 km per hour. Moderate cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 03.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and</li> </ul>



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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>





# INTEGRATED AGROMET ADVISORY SERVICE

## ICAR RESEARCH COMPLEX FOR NEH REGION

**Mizoram Centre, Kolasib- 796081, MIZORAM**  
(Prepared based on District wise Weather Forecast received from IMD,  
Guwahati)



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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



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



**District:** Champhai

**Period:** 10-14 September, 2014

**Bulletin No:** -448/2014/ Bulletin/English

**Dated:** 9<sup>th</sup> September, 2014

Parameters	10-09-2014	11-09-2014	12-09-2014	13-09-2014	14-09-2014
Rainfall (mm)	3	0	4	3	12
Max Temp (°C)	31	30	30	29	29
Min Temp (°C)	19	20	20	19	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly clear
Max RH (%)	99	99	99	99	98
Min RH (%)	62	56	58	73	72
Wind Speed (Kmph)	3	2	2	2	2
Wind Direction	N-E	N-E	E	S-E	S

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 10<sup>th</sup> September, 2014 To 14<sup>th</sup>  
September, 2014.**

There is a chance of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 29-31<sup>0</sup>C and 19-20<sup>0</sup>C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 58-73%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Moderate cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 25.0mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and</li> </ul>





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



			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Excess water removes from the base of the plant.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Nursery raising for offseason cucurbits.</li> </ul>
		Damping off	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Draining of excess water and preparation mound near the base.</li> </ul>
		Disease:	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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



		<b>Damping off-</b>	chlorothalonil will effectively control this disease.
		<b>Pest:</b>	○ Sulfur fungicides can be used to control this pest.
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Scab and leaf blight disease</b>	✓ Use of resistant varieties.
<b>Early Cole crop</b>	<b>Nursery stage</b>	<b>Land preparation</b>	<ul style="list-style-type: none"> <li>✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Raised bed, nursery bed solarisation.</li> <li>✚ Bed should be 1m width and conventional length.</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Line sowing of seeds (7-10cm)</li> </ul>
		<b>Damping off</b>	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> <li>✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.</li> </ul>
		<b>Mustard sawfly</b>	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		✓ Weeding in turmeric and ginger field.
		<b>Leaf spot and leaf blotch</b>	<ul style="list-style-type: none"> <li>○ Spraying Dithane M-45 @ 2.5g/litre of water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals.</li> <li>○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.</li> </ul>
<b>Maize</b>	<b>Flowering stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Pest:</b>	
		<b>Corn earworm</b>	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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



		<b>Birds</b>	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>- Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds.</li> <li>- Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.</li> </ul>
<b>Rice</b>	<b>Flowering Stage</b>		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		<b>Rice Stem borer</b>	<ul style="list-style-type: none"> <li>▪ Destroy egg masses.</li> <li>▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.</li> </ul>
		<b>Gundhi bug</b>	<ul style="list-style-type: none"> <li>▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml</li> <li>▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.</li> </ul>
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>▪ Judicious application of nitrogenous fertilizer.</li> <li>▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>• Black Quarter Vaccine (BQV).</li> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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



**Expert committee members:**

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

**Collaborating Department:**

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