



**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:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	5	0	6	6	4
Max Temp (°C)	29	29	28	28	25
Min Temp (°C)	20	20	19	19	18
Cloud Coverage	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy
Max RH (%)	99	98	99	99	97
Min RH (%)	72	67	66	72	73
Wind Speed (Kmph)	4	4	4	4	3
Wind Direction	Southerly	Southerly	Southerly	Southerly	Southerly

**STATUS OF MONSOON** (August 1-30, 2014, in bracket percent of variation over normal) **will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalia- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 25-29°C and 18-20°C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 66-73%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:021.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> </ul>



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			<ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	AIZAWL	<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	Vegetation stage	SERCHHIP	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage	LUNGLEI	<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>
		LAWNG	<p><b>Disease:</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chilies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		SAIHA	<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the</li> </ul>



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			control of vector.
		<b>Pest:</b> <b>Worm-</b> <b>Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>Disease:</b> <b>Damping off-</b>	<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>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Scab and leaf blight disease</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Leaf spot</b>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Pest:</b> <b>Corn earworm</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> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels.</li> </ul>



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			The rest of should be fine to eat. - Crop rotation with leguminous crop.
Rice	Maximum Seedling stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer KOLASIB	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.
Pig	Ages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
		Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	Ages	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
		Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Ages	Ranikhet Disease.	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		Coccidiosis	1. Amprolium or coccidiostat



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**Expert committee members:**

<b>Dr. S.B. Singh</b>	<b>: Joint Director</b>
<b>Dr. Saurav Saha</b>	<b>: Scientist (Agril. Physics)</b>
<b>Dr. Sudip Kumar Dutta</b>	<b>: Scientist (Hort.)</b>
<b>Dr. A. Ratankumar Singh</b>	<b>: Scientist (Soil Sci.)</b>
<b>Dr. L. H. Puii</b>	<b>: Scientist (Vet. Microbiology)</b>
<b>Dr Y. Ramakrishna</b>	<b>: Farm manager (T6)</b>
<b>Mr. Samik Chowdhury</b>	<b>: Technical Officer</b>
<b>Evans Syiem</b>	<b>: Meteorological Observer</b>

**Collaborating Department:**

<b>Dr. Lalmuanzovi</b>	<b>: PC KVK Lunglei</b>
	<b>: PC KVK, Kolasib</b>
<b>Pi. Lalnunpui Parte</b>	<b>: PC KVK, Serchhip</b>
	<b>: PC KVK, Champhai</b>
<b>Pu. Vanlalhraia Hnamte</b>	<b>: PC KVK, Lawngtlai</b>
	<b>: PC KVK, Saiha</b>





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**District:** Chhimtuipui

**Period:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	4	0	3	3	0
Max Temp (°C)	29	28	28	27	28
Min Temp (°C)	19	19	19	19	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	97	98	90
Min RH (%)	63	65	63	66	59
Wind Speed (Kmph)	4	5	4	4	2
Wind Direction	South-easterly	South-easterly	South-easterly	South-easterly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalai- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 17<sup>th</sup>  
August 2014.**

There is a chance of light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 27-29°C and 18-19°C. Maximum relative humidity is expected in the range of 90-98% and minimum may from 59-66%. Wind direction would be southeasterly with the wind speed of 2-5 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:010.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g/10 lt</li> </ul>



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			<p>of water.</p> <ul style="list-style-type: none"> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL	<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/lit of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetation stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage		<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: Wilt-	<ul style="list-style-type: none"> <li>○ Crop rotation with chillies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		Yellow vein mosaic-	<ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the control of vector.</li> </ul>



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		<b>Pest:</b> <b>Worm- Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>Disease:</b> <b>Damping off-</b>	<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>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Scab and leaf blight disease</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>Leaf spot</b>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Disease:</b> <b>Stewart's bacterial wilt.</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>	<b>Pest:</b> <b>Corn earworm</b>	<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.</li> </ul>





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Rice	Maximum Seedling stage	Rice Stem borer	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
Pig	Ages	Porcine Reproductive Respiratory Syndrome (PRRS). Swine fever.	<p>To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.</p> <ol style="list-style-type: none"> <li>1. Culling of positive pigs or piglets.</li> <li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
Cattle	Ages	Foot and Mouth Disease (FMD) Black Quarter (BQ)	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> <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>
Poultry	Ages	Ranikhet Disease. Coccidiosis	<ul style="list-style-type: none"> <li>• F1 vaccine at 0 days and R<sub>2</sub>B vaccine for adult birds.</li> <li>1. Amprolium or coccidiostat</li> </ul>



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**District:** Kolasib

**Period:** 15-19 August, 2014

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**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	5	7	11	20	8
Max Temp (°C)	30	30	27	28	25
Min Temp (°C)	21	21	21	21	20
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	99	99	99
Min RH (%)	74	61	70	79	87
Wind Speed (Kmph)	6	6	6	6	6
Wind Direction	South-easterly	Southerly	Southerly	Southerly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtal- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

The temperature range for maximum and minimum were 28.3-29.2°C and 23.0-23.6°C respectively. Partially Cloudy weather was observed. Wind direction is southwesterly. Maximum RH observed 61-84% & minimum of 40-42%. Rainfall recorded for the past three days is 027.9 mm.

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-30°C and 20-21°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 61-87%. Wind direction would be southeasterly with the wind speed of 6 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:051.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> </ul>



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			<ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	AIZAWL	<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	Vegetation stage	SERCHHIP	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage	LUNGLEI	<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>
		LAWNG	<p><b>Disease:</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chiliies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		SAIHA	<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the</li> </ul>



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Guwahati)*



			control of vector.
		<b>Pest:</b> <b>Worm-</b> <b>Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>Disease:</b> <b>Damping off-</b>	<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>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Scab and leaf blight disease</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
		<b>Leaf spot</b>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Pest:</b> <b>Corn earworm</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> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels.</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)



			The rest of should be fine to eat. - Crop rotation with leguminous crop.
Rice	Maximum Seedling stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		<b>Rice Stem borer</b>	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.
Pig	Ages	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
		<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	Ages	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
		<b>Black Quarter (BQ)</b>	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Ages	<b>Ranikhet Disease.</b>	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**Expert committee members:**

<b>Dr. S.B. Singh</b>	<b>: Joint Director</b>
<b>Dr. Saurav Saha</b>	<b>: Scientist (Agril. Physics)</b>
<b>Dr. Sudip Kumar Dutta</b>	<b>: Scientist (Hort.)</b>
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<b>Mr. Samik Chowdhury</b>	<b>: Technical Officer</b>
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**Collaborating Department:**

<b>Dr. Lalmuanzovi</b>	<b>: PC KVK Lunglei</b>
	<b>: PC KVK, Kolasib</b>
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	<b>: PC KVK, Champhai</b>
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**District:** Lawngtalai

**Period:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	12	11	14	9	0
Max Temp (°C)	29	28	28	28	28
Min Temp (°C)	21	20	20	20	19
Cloud Coverage	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy
Max RH (%)	97	94	96	97	90
Min RH (%)	66	68	67	70	63
Wind Speed (Kmph)	8	8	6	6	5
Wind Direction	South-easterly	South-easterly	South-easterly	South-easterly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib-	Champhai-	Mamit-	Aizawl-
Serchhip-	Lawngtalai-	Lunglei-	Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 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 28-29°C and 19-21°C. Maximum relative humidity is expected in the range of 90-97% and minimum may from 63-70%. Wind direction would be southeasterly with the wind speed of 5-8 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:046.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of</li> </ul>



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			weed. <ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL 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	Vegetation stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage		<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>
		LAWI SAIHA	<p><b>Disease:</b></p> <p><b>Wilt-</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chillies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
			<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in</li> </ul>



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			350 litre of water per acre for the control of vector.
		<b>Pest:</b> <b>Worm- Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>		<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>
		<b>Disease:</b> <b>Damping off-</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</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>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Leaf spot</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>Disease:</b> <b>Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> </ul>
		<b>Pest:</b>	<ul style="list-style-type: none"> <li>- If earworm damage occurs, clipp off the</li> </ul>





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		<b>Corn earworm</b>	tip of the ear and any affected kernels. The rest of should be fine to eat. - Crop rotation with leguminous crop.
<b>Rice</b>	<b>Maximum Seedling stage</b>		✓ One hand weed will require. ✓ Application of split dose of Urea.
		<b>Rice Stem borer</b>	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 mlper liter of water.
<b>Pig</b>	<b>Ages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
		<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>Ages</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
		<b>Black Quarter (BQ)</b>	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
<b>Poultry</b>	<b>Ages</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Lunglei

**Period:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	4	4	14	9	0
Max Temp (°C)	30	29	28	27	27
Min Temp (°C)	20	20	20	20	19
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	99	99	96
Min RH (%)	61	63	65	69	68
Wind Speed (Kmph)	5	5	5	5	3
Wind Direction	South-easterly	South-easterly	South-easterly	South-easterly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalai- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 19-20°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 61-69%. Wind direction would be southeasterly with the wind speed of 3-5 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:031.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of</li> </ul>



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			weed. <ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL 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	Vegetation stage	LUNGLEI	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage		<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>
		LAWI SAIHA	<p><b>Disease:</b></p> <p><b>Wilt-</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chillies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
			<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in</li> </ul>



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			350 litre of water per acre for the control of vector.
		<b>Pest:</b> <b>Worm- Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>		<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>
		<b>Disease:</b> <b>Damping off-</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>		<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</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>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>		<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Leaf spot</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>Disease:</b> <b>Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> </ul>
		<b>Pest:</b>	<ul style="list-style-type: none"> <li>- If earworm damage occurs, clipp off the</li> </ul>





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		<b>Corn earworm</b>	tip of the ear and any affected kernels. The rest of should be fine to eat. - Crop rotation with leguminous crop.
<b>Rice</b>	<b>Maximum Seedling stage</b>		✓ One hand weed will require. ✓ Application of split dose of Urea.
		<b>Rice Stem borer</b>	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.
<b>Pig</b>	<b>Ages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
		<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>Ages</b>	<b>Foot and Mouth Disease (FMD)</b>	• FMD vaccine at 16 week and repeat every 6 month.
		<b>Black Quarter (BQ)</b>	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
<b>Poultry</b>	<b>Ages</b>	<b>Ranikhet Disease.</b>	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Mamit

**Period:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	3	0	17	11	0
Max Temp (°C)	30	30	28	28	26
Min Temp (°C)	22	21	21	21	20
Cloud Coverage	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy
Max RH (%)	96	94	99	99	98
Min RH (%)	70	63	70	75	84
Wind Speed (Kmph)	7	7	7	7	5
Wind Direction	South-easterly	South-easterly	South-easterly	South-easterly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalia- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 26-30°C and 20-22°C. Maximum relative humidity is expected in the range of 94-98% and minimum may from 63-84%. Wind direction would be southeasterly with the wind speed of 5-7 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:031.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> </ul>



**INTEGRATED AGROMET ADVISORY  
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			<ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	AIZAWL	<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	Vegetation stage	SERCHHIP	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage	LUNGLEI	<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>
		LAWNG	<p><b>Disease:</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chilies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		SAIHA	<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the</li> </ul>



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			control of vector.
		<b>Pest:</b> <b>Worm-</b> <b>Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasytox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>KOLASIB</b>	<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>
		<b>Disease:</b> <b>Damping off-</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>MAMIT</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</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>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>SERCHHIP</b>	<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Leaf spot</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>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Disease:</b> <b>Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> </ul>
		<b>Pest:</b> <b>Corn earworm</b>	<ul style="list-style-type: none"> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels.</li> </ul>





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			The rest of should be fine to eat. - Crop rotation with leguminous crop.
Rice	Maximum Seedling stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer KOLASIB	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.
Pig	Ages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
		Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	Ages	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
		Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Ages	Ranikhet Disease.	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		Coccidiosis	1. Amprolium or coccidiostat



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**Expert committee members:**

<b>Dr. S.B. Singh</b>	<b>: Joint Director</b>
<b>Dr. Saurav Saha</b>	<b>: Scientist (Agril. Physics)</b>
<b>Dr. Sudip Kumar Dutta</b>	<b>: Scientist (Hort.)</b>
<b>Dr. A. Ratankumar Singh</b>	<b>: Scientist (Soil Sci.)</b>
<b>Dr. L. H. Puii</b>	<b>: Scientist (Vet. Microbiology)</b>
<b>Dr Y. Ramakrishna</b>	<b>: Farm manager (T6)</b>
<b>Mr. Samik Chowdhury</b>	<b>: Technical Officer</b>
<b>Evans Syiem</b>	<b>: Meteorological Observer</b>

**Collaborating Department:**

<b>Dr. Lalmuanzovi</b>	<b>: PC KVK Lunglei</b>
	<b>: PC KVK, Kolasib</b>
<b>Pi. Lalnunpui Parte</b>	<b>: PC KVK, Serchhip</b>
	<b>: PC KVK, Champhai</b>
<b>Pu. Vanlalhraia Hnamte</b>	<b>: PC KVK, Lawngtlai</b>
	<b>: PC KVK, Saiha</b>



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**District: Serchhip**

**Period: 15-19 August, 2014**

**Bulletin No: -441/2014/ Bulletin/English**

**Dated: 14<sup>th</sup> August, 2014**

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	0	0	4	4	0
Max Temp (°C)	29	28	28	27	26
Min Temp (°C)	19	19	19	19	17
Cloud Coverage	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy	Mainly Cloudy
Max RH (%)	99	98	99	100	96
Min RH (%)	60	60	61	65	68
Wind Speed (Kmph)	4	4	4	4	2
Wind Direction	South-easterly	South-easterly	South-easterly	South-easterly	South-easterly

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalai- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of light rainfall during the next 2 day. The maximum and minimum temperatures for the next 5 days may range for 26-29°C and 17-19°C. Maximum relative humidity is expected in the range of 96-100% and minimum may from 60-68%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:008.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g/10 lt</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)*



			<p>of water.</p> <ul style="list-style-type: none"> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL	<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/lit of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> </ul>
Cucurbits	Vegetation stage	SERCHHIP LUNGLEI	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage		<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>
		<b>Disease:</b> Wilt-	<ul style="list-style-type: none"> <li>○ Crop rotation with chillies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		<b>Yellow vein mosaic-</b>	<ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the control of vector.</li> </ul>



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## ICAR RESEARCH COMPLEX FOR NEH REGION

**Mizoram Centre, Kolasib- 796081, MIZORAM**  
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		<b>Pest:</b> <b>Worm- Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>Disease:</b> <b>Damping off-</b>	<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>
		<b>Pest:</b> <b>Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>Scab and leaf blight disease</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>Leaf spot</b>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Disease:</b> <b>Stewart's bacterial wilt.</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>	<b>Pest:</b> <b>Corn earworm</b>	<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.</li> </ul>





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Rice	Maximum Seedling stage	Rice Stem borer	<ul style="list-style-type: none"> <li>- Crop rotation with leguminous crop.</li> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
Pig	Ages	Porcine Reproductive Respiratory Syndrome (PRRS). Swine fever.	<p>To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.</p> <ol style="list-style-type: none"> <li>1. Culling of positive pigs or piglets.</li> <li>2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval</li> </ol>
Cattle	Ages	Foot and Mouth Disease (FMD) Black Quarter (BQ)	<ul style="list-style-type: none"> <li>• FMD vaccine at 16 week and repeat every 6 month.</li> <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>
Poultry	Ages	Ranikhet Disease. Coccidiosis	<ul style="list-style-type: none"> <li>• F1 vaccine at 0 days and R<sub>2</sub>B vaccine for adult birds.</li> <li>1. Amprolium or coccidiostat</li> </ul>



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<b>Dr. Saurav Saha</b>	<b>: Scientist (Agril. Physics)</b>
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	<b>: PC KVK, Saiha</b>



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**District:** Aizawl

**Period:** 15-19 August, 2014

**Bulletin No:** -441/2014/ Bulletin/English

**Dated:** 14<sup>th</sup> August, 2014

Parameters	15-08-2014	16-08-2014	17-08-2014	18-08-2014	19-08-2014
Rainfall (mm)	4	0	17	11	0
Max Temp (°C)	30	29	28	28	24
Min Temp (°C)	20	20	20	19	18
Cloud Coverage	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	98	96	99	99	98
Min RH (%)	69	60	66	74	82
Wind Speed (Kmph)	5	6	6	6	5
Wind Direction	South-East	South-East	Southerly	South-East	South-East

**STATUS OF MONSOON (August 1-30, 2014, in bracket percent of variation over normal) will start shortly**

Kolasib- Champhai- Mamit- Aizawl-  
Serchhip- Lawngtalia- Lunglei- Chhimtuipui-

**Weather summary of the past  
three days**

**Weather forecast valid from 15<sup>th</sup> August 2014 To 19<sup>th</sup>  
August 2014.**

There is a chance of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 24-30°C and 18-20°C. Maximum relative humidity is expected in the range of 96-99% and minimum may from 60-82%. Wind direction would be southeasterly with the wind speed of 5-6 km per hour. Partially cloudy sky weather will prevail during the next five days.

**Weekly cumulative rainfall:032.0mm**

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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> </ul>



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			<ul style="list-style-type: none"> <li>• For canker, spray streptomycin 2g/10 lt of water.</li> <li>• Excess water removes from the base of the plant.</li> </ul>
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> </ul>
Pineapple	Vegetative stage	AIZAWL	<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	Vegetation stage	SERCHHIP	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</li> <li>✚ Weeding near the plant</li> <li>✚ Draining of excess water and preparation mound near the base.</li> </ul>
Okra	Vegetation stage	LUNGLEI	<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>
		LAWNG	<p><b>Disease:</b></p> <ul style="list-style-type: none"> <li>○ Crop rotation with chilies, tomato etc.</li> <li>○ Treatment of seed with 3 g of captan or thiram per kg before sowing.</li> </ul>
		SAIHA	<p><b>Yellow vein mosaic-</b></p> <ul style="list-style-type: none"> <li>○ Spray 560 ml of Malathion 50 EC in 350 litre of water per acre for the</li> </ul>



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			control of vector.
		<b>Pest: Worm- Spider mite-</b>	<ul style="list-style-type: none"> <li>○ Spray 150 ml malathion 50 litres of water acre.</li> <li>○ Spray 250 ml of metasystox 25 EC in 125 litres of water</li> </ul>
<b>Brinjal</b>	<b>Vegetation stage</b>	<b>KOLASIB</b>	<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>
		<b>Disease: Damping off-</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest: Mites and hoppers-</b>	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
<b>Cowpea</b>	<b>Vegetative stage</b>	<b>MAMIT</b>	<ul style="list-style-type: none"> <li>✚ Trilling into bower structure.</li> <li>✚ Fertilizer application in split dose of recommended dose.</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>	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
<b>Ginger &amp; Turmeric</b>	<b>Vegetation stage</b>	<b>SERCHHIP</b>	<ul style="list-style-type: none"> <li>✓ Weeding in turmeric and ginger field</li> <li>✓ Gap filling</li> </ul>
		<b>Leaf spot</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>	<b>LUNGLEI</b>	<ul style="list-style-type: none"> <li>✓ Weeding in maize plot</li> <li>✓ Topdressing with urea fertilizer.</li> </ul>
		<b>Disease: Stewart's bacterial wilt.</b>	<ul style="list-style-type: none"> <li>- Used of resistant varieties.</li> <li>- Field sanitation.</li> <li>- Crop rotation with leguminous crop.</li> </ul>
		<b>Pest: Corn earworm</b>	<ul style="list-style-type: none"> <li>- If earworm damage occurs, clipp off the tip of the ear and any affected kernels.</li> </ul>





# INTEGRATED AGROMET ADVISORY SERVICE

## ICAR RESEARCH COMPLEX FOR NEH REGION

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			The rest of should be fine to eat. - Crop rotation with leguminous crop.
Rice	Maximum Seedling stage		✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer KOLASIB	To manage the attack a Spray of either validamycin 3L @ 2.5 ml or Hexaconazole 5 EC @ 2.0 ml or Propiconazole 25 EC @ 1 ml per liter of water.
Pig	Ages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
		Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	Ages	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
		Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Ages	Ranikhet Disease.	• F1 vaccine at 0 days and R <sub>2</sub> B vaccine for adult birds.
		Coccidiosis	1. Amprolium or coccidiostat



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<b>Dr. Sudip Kumar Dutta</b>	<b>: Scientist (Hort.)</b>
<b>Dr. A. Ratankumar Singh</b>	<b>: Scientist (Soil Sci.)</b>
<b>Dr. L. H. Puii</b>	<b>: Scientist (Vet. Microbiology)</b>
<b>Dr Y. Ramakrishna</b>	<b>: Farm manager (T6)</b>
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