



**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:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	5	0	0	0	0
Max Temp (°C)	32	32	32	33	32
Min Temp (°C)	18	19	19	19	20
Cloud Coverage	Clear sky	Clear sky	Mainly sky	Partially cloudy	Partially cloudy
Max RH (%)	97	98	97	98	97
Min RH (%)	49	52	50	47	50
Wind Speed (Kmph)	4	6	7	6	7
Wind Direction	E	E	N-E	E	E

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

**STATUS OF MONSOON-** 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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 18-20<sup>0</sup>C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 47-52%. Wind direction would be northeasterly with the wind speed of 4-7 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 05.0mm**

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>



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>



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		<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.



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		<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





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**Expert committee members:**

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**District:** Lunglei

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	8	4	0	0	3
Max Temp (°C)	33	32	32	33	33
Min Temp (°C)	17	17	17	18	18
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Partially clear	Partially clear
Max RH (%)	99	99	98	98	99
Min RH (%)	43	46	46	44	45
Wind Speed (Kmph)	4	4	6	5	6
Wind Direction	E	E	E	E	E

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

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

<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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 17-18<sup>0</sup>C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 43-46%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 15.0mm**

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>



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		<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.





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		<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



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**Expert committee members:**

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**INTEGRATED AGROMET ADVISORY  
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Mizoram Centre, Kolasib- 796081, MIZORAM  
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Guwahati)



**District:** Mamit

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	3	0	0	0	0
Max Temp (°C)	33	32	33	33	33
Min Temp (°C)	19	18	18	18	19
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Partially clear
Max RH (%)	99	99	98	98	99
Min RH (%)	48	51	51	50	51
Wind Speed (Kmph)	4	4	4	4	4
Wind Direction	E	E	E	E	E

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

**STATUS OF MONSOON-** 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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 18-19<sup>0</sup>C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 48-51%. Wind direction would be easterly with the wind speed of 4 km per hour. Clean sky 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>



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL 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>





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		<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.



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		<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



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**District:** Serchhip

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	10	5	0	0	4
Max Temp (°C)	33	32	32	34	33
Min Temp (°C)	16	16	16	17	17
Cloud Coverage	Clean sky	Clean sky	Mainly clear	Mainly clear	Partially clear
Max RH (%)	100	100	100	99	100
Min RH (%)	35	40	40	37	40
Wind Speed (Kmph)	4	4	6	6	6
Wind Direction	E	E	E	E	E

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

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

<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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-34<sup>0</sup>C and 16-17<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 35-40%. Wind direction would be easterly with the wind speed of 4-6 km per hour. Moderate cloudy weather will prevail during the next five days.

**Weekly cumulative rainfall: 19.0mm**

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>





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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>



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		<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.



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



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**District:** Aizawl

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	5	3	0	0	0
Max Temp (°C)	33	32	33	33	33
Min Temp (°C)	16	16	16	17	17
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Partially clear
Max RH (%)	99	99	99	99	99
Min RH (%)	42	46	48	45	46
Wind Speed (Kmph)	4	3	4	4	4
*Wind Direction	E	E	E	E	E

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

**STATUS OF MONSOON-** 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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 16-17<sup>0</sup>C. Maximum relative humidity is expected in the range of 99% and minimum may from 42-48%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 08.0 mm**

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>



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL 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>
		<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>
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>
		<b>Disease:</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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		<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.



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		<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





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**District:** Champhai

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	9	4	0	0	4
Max Temp (°C)	32	31	31	32	32
Min Temp (°C)	16	15	15	16	17
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Mainly clear	Partially clear
Max RH (%)	99	99	100	99	100
Min RH (%)	39	42	45	42	44
Wind Speed (Kmph)	3	3	4	3	4
Wind Direction	S-E	E	S-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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 31-32<sup>0</sup>C and 15-17<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 39-45%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Clear sky weather will prevail during the next five days.

**Weekly cumulative rainfall: 17.0mm**

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>



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>



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		<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.





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		<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



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# 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,  
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**District:** Chhimtuipui

**Period:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	6	3	0	0	3
Max Temp (°C)	33	32	32	33	33
Min Temp (°C)	17	17	17	18	18
Cloud Coverage	Clear sky	Clear sky	Mainly clear	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	99	100
Min RH (%)	42	47	44	40	44
Wind Speed (Kmph)	5	6	6	6	6
Wind Direction	E	E	E	E	E

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

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

<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 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 17-18<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 42-47%. Wind direction would be easterly with the wind speed of 5-6 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 12.0mm**

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>



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>





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		<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.



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		<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



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**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:** 08-12, October, 2014

**Bulletin No:** -456/2014/ Bulletin/English

**Dated:** 07<sup>th</sup> October, 2014

Parameters	08-10-2014	09-10-2014	10-10-2014	11-10-2014	12-10-2014
Rainfall (mm)	5	3	0	0	0
Max Temp (°C)	33	32	33	33	33
Min Temp (°C)	16	16	16	17	17
Cloud Coverage	Clear Sky	Clear Sky	Clear Sky	Mainly clear	Partially clear
Max RH (%)	99	99	99	99	99
Min RH (%)	42	46	48	45	46
Wind Speed (Kmph)	4	3	4	4	4
Wind Direction	E	E	E	E	E

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

**STATUS OF MONSOON- 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 31.5-33.2<sup>0</sup>C and 23.2-24.0<sup>0</sup>C respectively. Mainly Cloudy weather was observed. Wind direction is easterly. Maximum RH observed 44-48% & minimum of 20-21%. Rainfall recorded for the past three days is 00.0 mm.

**Weather forecast valid from 08<sup>th</sup> October, 2014 To 12<sup>th</sup>  
October, 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 32-33<sup>0</sup>C and 16-17<sup>0</sup>C. Maximum relative humidity is expected in the range of 99% and minimum may from 42-48%. Wind direction would be easterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 08.0mm**

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>





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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<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>
		<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>
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>
		<b>Disease:</b>	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or</li> </ul>



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		<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.



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		<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



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