



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



**District:** Chhimtuipui

**Period:** 19 - 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	7	5	6	6	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	99	100
Min RH (%)	35	27	26	23	29
Wind Speed (Kmph)	2	6	7	7	7
*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 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 5-7<sup>0</sup>C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 23-35%. Wind direction would be easterly with the wind speed of 2-7 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat





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**District:** Kolasib

**Period:** 19- 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	7	7	7	8	8
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	98	98	97
Min RH (%)	39	37	43	42	42
Wind Speed (Kmph)	3	4	4	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**

The temperature range for maximum and minimum were 25.4-28.6<sup>0</sup>C and 14.2-18.6<sup>0</sup>C respectively. Clean sky was observed. Wind direction is easterly. Maximum RH observed 56-63% & minimum of 17-27%. Rainfall recorded for the past three days is 00.0mm.

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

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 7-8<sup>0</sup>C. Maximum relative humidity is expected in the range of 97-98% and minimum may from 37-43%. Wind direction would be easterly with the wind speed of 3-6 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>





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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV).               <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Lawntalai

**Period:** 19 - 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	9	7	8	8	9
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	97	96	96	95	96
Min RH (%)	41	32	33	30	35
Wind Speed (Kmph)	4	7	7	7	7
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 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 7-9<sup>0</sup>C. Maximum relative humidity is expected in the range of 95-97% and minimum may from 30-41%. Wind direction would be northeasterly with the wind speed of 4-7km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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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:** Lunglei

**Period:** 19- 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	7	6	6	6	6
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	98	99
Min RH (%)	38	31	34	30	32
Wind Speed (Kmph)	4	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 (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**

**Weather forecast valid from 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 6-7<sup>0</sup>C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 30-38%. 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: 00.0 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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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## ICAR RESEARCH COMPLEX FOR NEH REGION

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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat





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# INTEGRATED AGROMET ADVISORY SERVICE

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Mizoram Centre, Kolasib- 796081, MIZORAM  
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**District:** Mamit

**Period:** 19- 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	8	7	7	8	9
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	98	98	98	98
Min RH (%)	45	42	45	45	46
Wind Speed (Kmph)	2	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 (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**

**Weather forecast valid from 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 7-9<sup>0</sup>C. Maximum relative humidity is expected in the range of 93-99% and minimum may from 42-46%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Dense cloudy sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.





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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>





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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV).               <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Serchhip

**Period:** 19- 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	27	28
Min Temp (°C)	6	4	5	5	5
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	32	25	30	24	27
Wind Speed (Kmph)	4	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 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 4-6<sup>0</sup>C. Maximum relative humidity is expected in the range of 100% and minimum may from 24-32%. 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: 00.0 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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.





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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Aizawl

**Period:** 19 -23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	27	27	28	28
Min Temp (°C)	6	5	6	6	6
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	99	99	99	99	99
Min RH (%)	39	36	41	39	40
Wind Speed (Kmph)	3	4	4	5	5
*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 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 27-28<sup>0</sup>C and 5-6<sup>0</sup>C. Maximum relative humidity is expected in the range of 99% and minimum may from 36-41%. Wind direction would be easterly with the wind speed of 3-5 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>





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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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**District:** Champhai

**Period:** 19 - 23, November, 2014

**Bulletin No:** -467/2014/ Bulletin/English

**Dated:** 18<sup>th</sup> November, 2014.

Parameters	19-11-2014	20-11-2014	21-11-2014	22-11-2014	23-11-2014
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	26	26	26	27
Min Temp (°C)	7	7	7	7	7
Cloud Coverage	Mainly clear	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	100	100	100
Min RH (%)	40	36	46	39	39
Wind Speed (Kmph)	4	4	4	4	5
*Wind Direction	S-E	E	S-E	S-E	S-E

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

**STATUS OF MONSOON-** 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 19<sup>th</sup> November, 2014 To 23<sup>rd</sup>  
November, 2014.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27<sup>o</sup>C and 7<sup>o</sup>C. Maximum relative humidity is expected in the range of 100% and minimum may from 39-46%. Wind direction would be southeasterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<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	<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>✚ The seedling should be transplant at 2 leaf stage.</li> <li>✚ Distance should be (50X 70 cm)</li> <li>✚ In case of dry spell use supplementary irrigation.</li> <li>✚ FYM application @400gm/pit along with recommended fertilizer dose 100:50:50 kg/ha</li> </ul>
		Damping off and Blight LAWI SAIHA	<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</li> </ul>



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			at 10-15 DAS are effective.
Brinjal	Fruiting 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: Damping off-	✓ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.
		Pest: Mites and hoppers-	✓ Sulfur fungicides can be used to control this pest.
Cowpea	Fruiting stage		<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>
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Main land preparation for cabbage, cauliflower, broccoli and knolkhol.</li> <li>✚ Plough the field 3-4 times.</li> <li>✚ Planting distance, plant to plant 45 cm and row to row (60-70) cm</li> <li>✚ Application of FYM (1.5-2.0 kg/ m<sup>2</sup>)</li> <li>✚ Fertilizer application 180:50:50 kg/ha.</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>
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m <sup>2</sup> in nursery is quite effective.
Mustard and toria	Sowing		✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.



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			<ul style="list-style-type: none"> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Pea	Sowing	KOLASIB	<ul style="list-style-type: none"> <li>✓ Seed should be sown in rows 30 cm apart by drill or pora. The seed should be placed at 2 to 3 cm depth. In case the moisture in the soil is insufficient, the seed may be mixed with moist soil and kept overnight for soaking.</li> <li>✓ Full amount of phosphorus and potash and half amount of nitrogen should be applied at the time of sowing</li> </ul>
Tomato	Nursery stage	Land preparation	<ul style="list-style-type: none"> <li>✓ Nursery preparation for tomato. <ul style="list-style-type: none"> <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> </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>
		Leaf spot and leaf blotch	<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>
Rice	Flowering Stage		<ul style="list-style-type: none"> <li>✓ One hand weed will require.</li> <li>✓ Application of split dose of Urea.</li> </ul>
		Rice Stem borer	<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>
		Gundhi bug	<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</li> </ul>



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			population reaches ETL of 1 nymph or adult/ hill.
		<b>Leaf blast</b>	<ul style="list-style-type: none"> <li>Judicious application of nitrogenous fertilizer.</li> <li>Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.</li> </ul>
<b>Pig</b>	<b>All stages</b>	<b>Porcine Reproductive Respiratory Syndrome (PRRS).</b>	1. Culling of positive pigs or piglets.
	<b>Adult stage</b>	<b>Swine fever.</b>	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
<b>Cattle</b>	<b>All age group</b>	<b>Foot and Mouth Disease (FMD)</b>	<ul style="list-style-type: none"> <li>FMD vaccine at 16 week and repeat every 6 month.</li> </ul>
	<b>Young stage</b>	<b>Black Quarter (BQ)</b>	<ul style="list-style-type: none"> <li>Black Quarter Vaccine (BQV). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </li> </ul>
<b>Poultry</b>	<b>Adult stage</b>	<b>Ranikhet Disease.</b>	<ul style="list-style-type: none"> <li>F1 vaccine at (1-6) days of birth and R<sub>2</sub>B vaccine for adult birds.</li> </ul>
	<b>Early stage</b>	<b>Coccidiosis</b>	1. Amprolium or coccidiostat



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