



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Chhimtuipui

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	27	27	26	26
Min Temp (°C)	7	9	10	7	6
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	92	80	69	79	67
Min RH (%)	22	25	24	30	19
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	N-E	E	N-E	E

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

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

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

**Weather summary of the past three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.**

There is no chance of light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-27<sup>0</sup>C and 6-10<sup>0</sup>C. Maximum relative humidity is expected in the range of 67-92% and minimum may from 19-30%. Wind direction would be northeasterly 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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to 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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>Polythene nursery raising can be done/ initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			<ul style="list-style-type: none"> <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	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Disease: Damping off-	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
Cowpea	Fruiting stage	AIZAWL	<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	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	<ul style="list-style-type: none"> <li>✓ Application of carbofuran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> </ul>
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation to the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding to the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.</li> </ul>



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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**Expert committee members:**

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**Period:** 28 January – 01, February, 2015

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Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	27	26	25	25
Min Temp (°C)	5	6	9	3	3
Cloud Coverage	Clear sky	Mainly clear	Clear sky	Clear sky	Clear sky
Max RH (%)	97	97	99	97	92
Min RH (%)	29	28	26	32	24
Wind Speed (Kmph)	4	4	4	3	3
*Wind Direction	S-E	E	E	E	E

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

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

<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)
<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)

## Weather summary of the past three days

The temperature range for maximum and minimum were 25.3-26.0°C and 14.6-15.8°C respectively. Clear sky was observed. Wind direction is easterly. Maximum RH observed 50-58% & minimum of 20-23%. Rainfall recorded for the past three days is 00.0mm.

## Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-27°C and 3-9°C. Maximum relative humidity is expected in the range of 92-99% and minimum may from 24-32%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to 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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>Polythene nursery raising can be done/ initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</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	AIZAWL	<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	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage		<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<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>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lawngtalai

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	28	27	26
Min Temp (°C)	8	10	11	9	7
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	84	75	66	72	62
Min RH (%)	22	24	23	30	18
Wind Speed (Kmph)	5	5	5	6	6
*Wind Direction	E	N-E	E	N-E	E

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

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

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

Weather summary of the past three days

Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 26-28<sup>0</sup>C and 7-11<sup>0</sup>C. Maximum relative humidity is expected in the range of 62-84% and minimum may from 18-30%. Wind direction would be northeasterly with the wind speed of 5-6 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 mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to 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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>Polythene nursery raising can be done/initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> <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	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Disease: Damping off-	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
Cowpea	Fruiting stage	AIZAWL	<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	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	<ul style="list-style-type: none"> <li>✓ Application of carbofuran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> </ul>
Mustard and toria	Flowering stage	LUNGLEI	<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.</li> </ul>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



**GRAMIN KRISHI MAUSAM SEWA**  
**ICAR RESEARCH COMPLEX FOR NEH REGION**  
Mizoram Centre, Kolasib- 796081, MIZORAM  
*(Prepared based on District wise Weather Forecast received from IMD, Guwahati)*



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Lunglei

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	28	27	26	25
Min Temp (°C)	6	8	8	6	4
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	91	88	84	84	84
Min RH (%)	21	25	27	31	18
Wind Speed (Kmph)	3	4	4	3	4
*Wind Direction	N-E	N-E	E	N-E	E

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

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

<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)
<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)

**Weather summary of the past three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-28<sup>0</sup>C and 4-8<sup>0</sup>C. Maximum relative humidity is expected in the range of 84-91% and minimum may from 18-31%. Wind direction would be northeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to 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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>Polythene nursery raising can be done/ initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			<ul style="list-style-type: none"> <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	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Disease: Damping off-	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
Cowpea	Fruiting stage	AIZAWL	<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	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	<ul style="list-style-type: none"> <li>✓ Application of carbofuran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> </ul>
Mustard and toria	Flowering stage	LUNGLEI	<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.</li> </ul>



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<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>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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



**Expert committee members:**

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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Mamit

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	28	27	26	25
Min Temp (°C)	6	7	9	4	3
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	96	95	95	93	89
Min RH (%)	27	27	26	32	21
Wind Speed (Kmph)	2	2	4	2	3
*Wind Direction	E	E	E	E	E

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

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

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

**Weather summary of the past  
three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup>  
February, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 25-28<sup>0</sup>C and 3-9<sup>0</sup>C. Maximum relative humidity is expected in the range of 89-96% and minimum may from 21-32%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to 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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>Polythene nursery raising can be done/initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</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	AIZAWL	<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	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<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>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Serchhip

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	24	24
Min Temp (°C)	5	6	7	4	2
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	100	100	93	100	100
Min RH (%)	21	26	29	32	20
Wind Speed (Kmph)	3	4	4	2	4
*Wind Direction	E	E	E	E	E

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

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

<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)
<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)

**Weather summary of the past three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-26<sup>0</sup>C and 2-7<sup>0</sup>C. Maximum relative humidity is expected in the range of 93-100% and minimum may from 21-32%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>• Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation in the base.</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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/ltr of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation in the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>✚ Polythene nursery raising can be done/ initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation if require.</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	AIZAWL	<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	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation if require.</li> <li>❖ Weeding near the plant.</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	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<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>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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



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# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Aizawl

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	26	26	25	24	24
Min Temp (°C)	5	5	8	3	2
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	97	97	96	94
Min RH (%)	28	28	27	32	23
Wind Speed (Kmph)	3	3	4	2	3
*Wind Direction	E	E	E	E	E

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

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

<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)
<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)	<b>Serchhip-0.00mm</b> (0.00mm)

**Weather summary of the past  
three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup>  
February, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 24-26°C and 3-8°C. Maximum relative humidity is expected in the range of 94-97% and minimum may from 23-32%. Wind direction would be southeasterly with the wind speed of 2-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>• Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation to the base.</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 CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>○ Clean the vicinity of plants by weeding and loosen up the soil.</li> <li>○ Remove slips and use it as a new planting material.</li> <li>○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lit of water to protect against soil borne disease and insect.</li> <li>○ Weeding and intercultural operation.</li> <li>○ Provide irrigation to the plant.</li> </ul>
Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>✚ Polythene nursery raising can be done/ initiate</li> </ul>
		Damping off and Blight	<ul style="list-style-type: none"> <li>✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed</li> </ul>



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			✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
Brinjal	Fruiting stage	KOLASIB	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</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	AIZAWL	<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	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation to the plant.</li> <li>❖ Weeding near the plant.</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	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage	LAWNGTLAI	<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.



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Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation to the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage	SERCHHIP	<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	• Black Quarter Vaccine (BQV). ❖ Primary vaccination 6 month or above ❖ Revaccination annually
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



**District:** Champhai

**Period:** 28 January – 01, February, 2015

**Bulletin No:** -487/2015/ Bulletin/English

**Date of issue:** 27<sup>th</sup> January, 2015

Parameters	28.01.2015	29.01.2015	30.01.2015	31.01.2015	01.02.2015
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Min Temp (°C)	5	7	9	5	2
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	98	96	91	95	98
Min RH (%)	29	29	29	31	26
Wind Speed (Kmph)	4	4	4	4	3
*Wind Direction	5-E	S-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-** December 1-31, 2014 (Percent of deviation from normal in parenthesis)

<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)	<b>Kolasib- 0.00 mm</b> (0.00mm)
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**Weather summary of the past three days**

**Weather forecast valid from 28<sup>th</sup> January, 2015 To 01<sup>st</sup> February, 2015.**

There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-26<sup>o</sup>C and 2-9<sup>o</sup>C. Maximum relative humidity is expected in the range of 91-98% and minimum may from 26-31%. Wind direction would be southeasterly with the wind speed of 3-4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 00.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> <li>• Prune the diseased and dead twigs.</li> <li>• Wound dressing with Bordeaux paste and mulch with dry grass to conserve moisture and suppress the growth of weed.</li> <li>• For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water.</li> </ul>



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			<ul style="list-style-type: none"> <li>• Excess water removes from the base of the plant.</li> </ul>
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> <li>✓ Remove water sucker, keep 1or 2 plants in a single place.</li> <li>✓ Remove sword sucker and use it as new planting material.</li> <li>✓ Provide irrigation in the base.</li> <li>✓ Fertilizer application in split dose of recommended dose.</li> <li>✓ Harvest fruits when the flower tips of the fruit dehiscent.</li> </ul>
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Cucurbits	Vegetative stage	LUNGLEI LAWNGTLAI	<ul style="list-style-type: none"> <li>✚ Land is ploughed to a fine tilth and pits of 60 cm diameter and 30-45cm depth are made at a spacing of 2.0-2.5x 2.0-2.5 m, 2.0-2.5x 1.0-2.0 1.5-2.0 x 1.0-2.0 m for pumpkin, bottle gourd cucumber respectively. Well rotten FYM should be applied in pits and filled with top soil up to 3/4th height and 2-3 seeds will be sown in each pit.</li> <li>✚ In case of chow-chow, fruit are planted with broad end downwards, 2/3rd portion below soil at a spacing of 3.5 x 2.0 m.</li> <li>✚ Polythene nursery raising can be done/ initiate</li> </ul>
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			<ul style="list-style-type: none"> <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	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>❖ Provide irrigation in the field.</li> </ul>
		Disease: Damping off-	<ul style="list-style-type: none"> <li>○ Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		Pest: Mites and hoppers-	<ul style="list-style-type: none"> <li>○ Sulfur fungicides can be used to control this pest.</li> </ul>
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	<ul style="list-style-type: none"> <li>✓ Use of resistant varieties.</li> </ul>
Early Cole crop	Vegetative stage	Card formation stage	<ul style="list-style-type: none"> <li>❖ Application of Nitrogenous fertilizer urea in card formation stage.</li> <li>❖ Provide irrigation in the plant.</li> <li>❖ Weeding near the plant.</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	<ul style="list-style-type: none"> <li>✓ Application of carbofuran 3G @ 100g/m<sup>2</sup> in nursery is quite effective.</li> </ul>
Mustard and toria	Flowering stage		<ul style="list-style-type: none"> <li>○ Weeding in the toria plot.</li> <li>○ Provide irrigation in the field.</li> <li>○ Top dressing with urea if available or apply cow dung.</li> </ul>
Pea	Flowering Stage		<ul style="list-style-type: none"> <li>✓ Weeding in the pea plot.</li> <li>✓ Provide irrigation in the field.</li> </ul>
		Aphid	<ul style="list-style-type: none"> <li>○ In case of aphid infestation apply Imidachloprid 1.5ml/lt of water.</li> </ul>



# GRAMIN KRISHI MAUSAM SEWA ICAR RESEARCH COMPLEX FOR NEH REGION

Mizoram Centre, Kolasib- 796081, MIZORAM

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



Tomato	Vegetative stage	Land preparation	<ul style="list-style-type: none"> <li>❖ Weeding near the plant</li> <li>❖ Fertilizer application in split dose of recommended dose.</li> <li>❖ Provide irrigation in the plant.</li> </ul>
		Damping off KOLASIB	<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 MAMIT AIZAWL	<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	Harvesting stage		<ul style="list-style-type: none"> <li>✓ Harvest rice crop</li> <li>✓ Cut residue 20 cm from the base.</li> <li>✓ Open the furrow with the help of furrow opener.</li> <li>✓ Place FYM and fertilizer.</li> <li>✓ Place the seed and cover by soil.</li> </ul>
Pig	All stages	Porcine Reproductive Respiratory Syndrome (PRRS).	1. Culling of positive pigs or piglets.
	Adult stage	Swine fever.	2. Vaccination of pigs with SF vaccines at 2 months and yearly interval/6 month interval
Cattle	All age group	Foot and Mouth Disease (FMD)	• FMD vaccine at 16 week and repeat every 6 month.
	Young stage	Black Quarter (BQ)	<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>
Poultry	Adult stage	Ranikhet Disease.	• F1 vaccine at (1-6) days of birth and R <sub>2</sub> B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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