



# 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:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	27	28	30	29	28
Min Temp (°C)	7	10	11	12	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	75	66	64	62	65
Min RH (%)	22	21	17	24	24
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

**STATUS OF MONSOON- January 1-31, 2015 (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 18<sup>th</sup> February, 2015 To 22<sup>nd</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 27-30°C and 7-13°C. Maximum relative humidity is expected in the range of 62-75% and minimum may from 17-24%. Wind direction would be easterly 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/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days interval.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> </ul>



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			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>



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			<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage		<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</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 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>
Cucurbitaceous crop	Fruiting stage		<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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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**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	11	0
Max Temp (°C)	26	28	28	28	28
Min Temp (°C)	7	8	9	12	11
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	93	94	95	97	96
Min RH (%)	29	26	27	32	33
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	S-E	E	S-E	S-E

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

**STATUS OF MONSOON-** January 1-31, 2015 (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 23.4-24.6°C and 14.1-17.0°C respectively. Partially sky was observed. Wind direction is easterly. Maximum RH observed 59-88% & minimum of 32-41%. Rainfall recorded for the past three days is 02.0mm.

### Weather forecast valid from 18<sup>th</sup> February, 2015 To 22<sup>nd</sup> February, 2015.

There is a chance of moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 26-28°C and 7-12°C. Maximum relative humidity is expected in the range of 93-97% and minimum may from 26-33%. 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: 11.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days interval.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> </ul>



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			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>





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			<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage		<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</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 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>
Cucurbitaceous crop	Fruiting stage		<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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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# 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:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	29	29	31	30	29
Min Temp (°C)	8	11	12	13	13
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	75	68	67	67	71
Min RH (%)	22	21	18	24	27
Wind Speed (Kmph)	5	5	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- January 1-31, 2015 (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 18<sup>th</sup> February, 2015 To 22<sup>nd</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 29-31°C and 8-13°C. Maximum relative humidity is expected in the range of 67-75% and minimum may from 18-24%. Wind direction would be easterly with the wind speed of 4-5 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/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days interval.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> </ul>





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			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>



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		KOLASIB	<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul>
Brinjal	Fruiting stage	LUNGLEI	<ul style="list-style-type: none"> <li>Weeding near the plant</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Provide irrigation in the plant.</li> </ul>
		<b>Disease:</b> Damping off-	<ul style="list-style-type: none"> <li>Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> Mites and hoppers-	<ul style="list-style-type: none"> <li>Sulfur fungicides can be used to control this pest.</li> </ul>
Cucurbitaceous crop	Fruiting stage	SAIHA	<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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,  
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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:** Lunglei

**Period:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	0	0
Max Temp (°C)	28	28	31	29	28
Min Temp (°C)	7	9	10	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	89	88	94	74	80
Min RH (%)	22	23	21	26	27
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E
Northerly- <b>N</b> , North-Easterly- <b>N-E</b> , Easterly- <b>E</b> , South-Easterly- <b>S-E</b> , Southerly- <b>S</b> , South-Westerly- <b>S-W</b> , Westerly- <b>W</b> , North-westerly- <b>N-W</b> .					
<b>STATUS OF MONSOON-</b> January 1-31, 2015 <i>(Percent of deviation from normal in parenthesis)</i> <b>Kolasib-</b> 0.00 mm (0.00mm) <b>Kolasib-</b> 0.00 mm (0.00mm) <b>Kolasib-</b> 0.00 mm (0.00mm) <b>Kolasib-</b> 0.00 mm (0.00mm) <b>Serchhip-</b> 0.00mm (0.00mm) <b>Serchhip-</b> 0.00mm (0.00mm) <b>Serchhip-</b> 0.00mm (0.00mm) <b>Serchhip-</b> 0.00mm (0.00mm)					
<b>Weather summary of the past three days</b>		<b>Weather forecast valid from 18<sup>th</sup> February, 2015 To 22<sup>nd</sup> February, 2015.</b>			
		There is no chance of rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 28-31°C and 7-12°C. Maximum relative humidity is expected in the range of 74-94% and minimum may from 21-27%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.			
		<b>Weekly cumulative rainfall: 00.0 mm</b>			
<b>Main Crop/ Animal /Fisheries</b>	<b>Stage</b>	<b>Cultural practices/ Pest/ Diseases</b>	<b>Agricultural / Horticultural/ animal husbandry advisories</b>		
<b>Khasi Mandarin</b>	<b>Vegetative/ Harvesting stage</b>		✚ Provide irrigation 10-15 days interval. ✚ Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.		



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



			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>



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		KOLASIB	<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul>
Brinjal	Fruiting stage	LUNGLEI	<ul style="list-style-type: none"> <li>Weeding near the plant</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Provide irrigation in the plant.</li> </ul>
		<b>Disease:</b> Damping off-	<ul style="list-style-type: none"> <li>Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> Mites and hoppers-	<ul style="list-style-type: none"> <li>Sulfur fungicides can be used to control this pest.</li> </ul>
Cucurbitaceous crop	Fruiting stage	SAIHA	<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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). <ul style="list-style-type: none"> <li>❖ Primary vaccination 6 month or above</li> <li>❖ Revaccination annually</li> </ul> </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

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## 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:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	11	0
Max Temp (°C)	27	28	29	30	29
Min Temp (°C)	7	8	9	11	12
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	93	91	99	97	94
Min RH (%)	27	25	26	30	32
Wind Speed (Kmph)	4	4	2	4	4
*Wind Direction	E	S-E	E	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- January 1-31, 2015 (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 18<sup>th</sup> February, 2015 To 22<sup>nd</sup>  
February, 2015.**

There is a chance of moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 27-30°C and 7-12°C. Maximum relative humidity is expected in the range of 91-97% and minimum may from 25-32%. 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: 11.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative/ Harvesting stage		<ul style="list-style-type: none"><li>Provide irrigation 10-15 days interval.</li><li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</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)



			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</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)



			<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage		<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</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 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>
Cucurbitaceous crop	Fruiting stage		<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</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)



		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of





# 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)



		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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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# 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:** Serchhip

**Period:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	3	0
Max Temp (°C)	26	26	26	27	27
Min Temp (°C)	7	6	7	10	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	79	100	100	95	74
Min RH (%)	26	23	28	29	30
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	E	E	E	E	E

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

**STATUS OF MONSOON-** January 1-31, 2015 (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 18<sup>th</sup> February, 2015 To 22<sup>nd</sup> February, 2015.**

There is a chance of light rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 26-27°C and 6-10°C. Maximum relative humidity is expected in the range of 79-100% and minimum may from 23-30%. Wind direction would be easterly with the wind speed of 4 km per hour. Clear sky will prevail during the next five days.

**Weekly cumulative rainfall: 03.0 mm**

Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days interval.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</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)



			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</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)



			<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage		<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</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 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>
Cucurbitaceous crop	Fruiting stage		<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>





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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



# 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)



		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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:** Aizawl

**Period:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	11	0
Max Temp (oC)	25	27	26	27	27
Min Temp (oC)	6	7	8	11	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Mainly clear	Clear sky
Max RH (%)	94	95	100	97	92
Min RH (%)	28	25	27	31	32
Wind Speed (Kmph)	4	4	3	4	4
*Wind Direction	E	E	S-E	S-E	S-E
Northerly- <b>N</b> , North-Easterly- <b>N-E</b> , Easterly- <b>E</b> , South-Easterly- <b>S-E</b> , Southerly- <b>S</b> , South-Westerly- <b>S-W</b> , Westerly- <b>W</b> , North-westerly- <b>N-W</b> .					
STATUS OF MONSOON- January 1-31, 2015 (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 18 <sup>th</sup> February, 2015 To 22 <sup>nd</sup> February, 2015.			
		There is a chance of moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 25-27 <sup>0</sup> C and 6-11 <sup>0</sup> C. Maximum relative humidity is expected in the range of 92-100% and minimum may from 25-32%. 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: 11.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative/ Harvesting stage		<div><div></div><div>Provide irrigation 10-15 days internal.</div></div> <div><div></div><div>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</div></div>		



# 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)



			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>





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Mizoram Centre, Kolasib- 796081, MIZORAM

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



			<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage		<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</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 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>
Cucurbitaceous crop	Fruiting stage		<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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,  
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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:** Champhai

**Period:** 18-22 February, 2015

**Bulletin No:** -493/2015/ Bulletin/English

**Date of issue:** 17<sup>th</sup> February, 2015

Parameters	18.02.2015	19.02.2015	20.02.2015	21.02.2015	22.02.2015
Rainfall (mm)	0	0	0	10	0
Max Temp (oC)	24	25	25	26	27
Min Temp (oC)	6	7	8	11	10
Cloud Coverage	Clear sky	Clear sky	Clear sky	Clear sky	Clear sky
Max RH (%)	89	97	93	93	81
Min RH (%)	32	29	30	33	32
Wind Speed (Kmph)	4	4	4	4	4
*Wind Direction	S-E	S-E	S-E	S-E	S-E
Northerly- <b>N</b> , North-Easterly- <b>N-E</b> , Easterly- <b>E</b> , South-Easterly- <b>S-E</b> , Southerly- <b>S</b> , South-Westerly- <b>S-W</b> , Westerly- <b>W</b> , North-westerly- <b>N-W</b> .					
STATUS OF MONSOON- January 1-31, 2015 (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 18 <sup>th</sup> February, 2015 To 22 <sup>nd</sup> February, 2015.			
		There is a chance of moderate rainfall during the next 1 day. The maximum and minimum temperatures for the next 5 days may range for 24-27 <sup>0</sup> C and 6-11 <sup>0</sup> C. Maximum relative humidity is expected in the range of 81-97% and minimum may from 29-33%. 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: 10.0 mm			
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories		
Khasi Mandarin	Vegetative/ Harvesting stage		<div><div></div> Provide irrigation 10-15 days internal.</div> <div><div></div> Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</div>		





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Mizoram Centre, Kolasib- 796081, MIZORAM

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			<ul style="list-style-type: none"> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Oil plam	Vegetative/ Harvesting stage		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600: 200:100 (g/pt).</li> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Apply Bordeaux mixture to the plant after pruning.</li> <li>Fruits are harvested when they attain full size, develop attractive colour with optimum sugar and acid blend.</li> </ul>
Banana	Vegetative/ harvesting		<ul style="list-style-type: none"> <li>Provide irrigation 10-15 days internal.</li> <li>Application of dry leaf mulch or paddy husk to a thickness of about 8 cm. in the basin keeps down the weed growth and decreases the number of irrigations and also improves fruit quality.</li> <li>Application of split dose of fertilizer 600:</li> </ul>



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		KOLASIB	<p>200:100 (g/pt).</p> <ul style="list-style-type: none"> <li>Apply micro-nutrients viz. zinc, copper, manganese, iron, boron and molybdenum are required in ample quantities for supplying nutrients and also reduce serious disorders which may lead to decline of the whole orchard.</li> <li>Pruning on a regular basis removes unwanted or suckers, keeps production mats in optimum condition, saves fertilizer, reduces pest and disease.</li> <li>Fruits are harvested when they attain full size, develop attractive yellow colour.</li> </ul>
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAL SERCHHIP	<ul style="list-style-type: none"> <li>Colocassia, yam, chilies, cabbage, cauliflower, sweet potato, pigeon pea, green gram, black gram, sesame, etc. intercrop with pine apple which give additional income to farmer.</li> <li>Pineapple plants should be irrigated with five or six irrigations during the dry months at intervals of 20–25 days.</li> <li>Cover crops like sweet potato, etc., can also be grown to conserve soil moisture.</li> <li>Mulching with straw and other plant materials is the technique for soil moisture conservation.</li> </ul>
Brinjal	Fruiting stage	LUNGLEI	<ul style="list-style-type: none"> <li>Weeding near the plant</li> <li>Fertilizer application in split dose of recommended dose.</li> <li>Provide irrigation in the plant.</li> </ul>
		<b>Disease:</b> Damping off-	<ul style="list-style-type: none"> <li>Seed treatment with captan, thiram or chlorothalonil will effectively control this disease.</li> </ul>
		<b>Pest:</b> Mites and hoppers-	<ul style="list-style-type: none"> <li>Sulfur fungicides can be used to control this pest.</li> </ul>
Cucurbitaceous crop	Fruiting stage	SAIHA	<ul style="list-style-type: none"> <li>Provide irrigation every 7 days interval which will give better yield.</li> <li>In large gardens apply carbaryl 0.2 per</li> </ul>



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Mizoram Centre, Kolasib- 796081, MIZORAM

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		KOLASIB	cent or malathion 0.15 per cent suspension containing sugar or jaggery at 10 g/l at fortnightly intervals at flowering and fruit initiation against fruit fly and pumpkin beetle. ✚ Provide split doses of urea (70g/pt) at the time of full blooming.
Okra	Sowing stage		✚ Plough the field with the help of spade. ✚ Sow 2 seed 45 X 45 cm spacing. ✚ Before sowing seed provide one or two irrigation.
Broccoli	Card formation stage	AIZAWL	✚ Provide split dose of fertilizer to the plant (50 g/pt). ✚ Provide additional amount of irrigation to the plant for formation of card. ✚ Reduce moisture less with intercrop with different legume like pea, lentil and gram. ✚ Sow one or two mustard line after every 25 rows of broccoli.
Mustard and toria	Flowering stage	SERCHHIP	○ Weeding in the toria plot. ○ Provide irrigation in the field. ○ Top dressing with urea if available or apply cow dung.
Pea	Flowering Stage		✓ Weeding in the pea plot. ✓ Provide irrigation in the field.
		LUNGLE <b>Aphid</b>	○ In case of aphid infestation apply Imidachloprid 1.5ml/lit of water.
Tomato	Vegetative stage	<b>Land preparation</b>	❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Provide irrigation to the plant.
		<b>Damping off</b>	✓ Seed treatment with thiram 3g/kg seed or Trichoderma viride 4g+ metalaxyl 4g (Apron)/ kg seed ✓ Drenching 1% Bordeaux mixture or 2 g captan or 3 copper oxychloride/ lt of water at 10-15 DAS are effective.
		<b>Leaf spot and leaf</b>	○ Spraying Dithane M-45 @ 2.5g/litre of



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Mizoram Centre, Kolasib- 796081, MIZORAM

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



		blotch	water or Bavistin @ 1g/litre of water, 2-3 sprayings should be given fortnightly intervals. ○ Spraying of Blitox @ 3 g/l of water was found effective against leaf spot.
Ginger and turmeric	Land preparation	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> <li>Clear the field during February-March and burn the weeds, stubbles, roots etc. in situ.</li> <li>Prepare the land by ploughing or digging by spade.</li> <li>Prepare beds of convenient length (across the slope where the land is undulating), 1 m width, 25 cm height with 40 cm spacing between the beds.</li> <li>Provide drainage channels, one for every 25 beds on flat lands</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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