



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



District: Lunglei

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	6	6	3	8	10
Max Temp (°C)	30	31	31	29	23
Min Temp (°C)	20	20	21	22	18
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	99	100	100
Min RH (%)	71	63	64	73	97
Wind Speed (Kmph)	2	2	2	6	2
Wind Direction	W	W	W	W	S

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-31⁰C and 18-21⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 63-97%. Wind direction would be easterly and southeasterly with the wind speed of 2-6 km per hour. Moderate cloudy weather will prevail during the next five days.

Weekly cumulative rainfall: 33.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Lawngtalai

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	4	3	0	16	7
Max Temp (°C)	30	30	31	29	25
Min Temp (°C)	21	21	22	21	19
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	98	99	98
Min RH (%)	71	73	70	83	92
Wind Speed (Kmph)	2	2	2	6	4
Wind Direction	W	W	W	S	E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalai- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 25-31⁰C and 19-22⁰C. Maximum relative humidity is expected in the range of 98-99% and minimum may from 70-92%. Wind direction would be southeasterly with the wind speed of 2-6 km per hour. Clean sky weather will prevail during the next five days.

Weekly cumulative rainfall: 30.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Kolasib

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	7	0	0	8	17
Max Temp (°C)	30	32	33	30	24
Min Temp (°C)	21	21	22	22	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	99	100	100
Min RH (%)	81	59	56	69	98
Wind Speed (Kmph)	2	2	2	2	2
Wind Direction	W	W	W	S	S-E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

Weather summary of the past three days		Weather forecast valid from 17 th September, 2014 To 21 st September, 2014.	
The temperature range for maximum and minimum were 30.4-31.2 ⁰ C and 21.5-23.5 ⁰ C respectively. Mainly Cloudy weather was observed. Wind direction is northeasterly. Maximum RH observed 74-76% & minimum of 19-28%. Rainfall recorded for the past three days is 31.6 mm.		There is a chance of moderate to light rainfall during the next 3 day. The maximum and minimum temperatures for the next 5 days may range for 24-33 ⁰ C and 20-22 ⁰ C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 56-98%. Wind direction would be southeasterly with the wind speed of 2 km per hour. Moderate cloudy weather will prevail during the next five days.	
		Weekly cumulative rainfall: 32.0mm	
Main Crop/ Animal /Fisheries	Stage	Cultural practices/ Pest/ Diseases	Agricultural / Horticultural/ animal husbandry advisories
Khasi Mandarin	Vegetative stage	Canker	<ul style="list-style-type: none"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Chhimtuipui

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	5	4	0	18	7
Max Temp (°C)	30	30	31	28	24
Min Temp (°C)	20	20	21	20	18
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	71	73	67	85	93
Wind Speed (Kmph)	0	2	2	4	2
Wind Direction	N-W	W	W	S	E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 24-31⁰C and 18-21⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 67-93%. Wind direction would be southeasterly with the wind speed of 0-4 km per hour. Moderate cloudy weather will prevail during the next five days.

Weekly cumulative rainfall: 34.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Champhai

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	10	7	4	21	12
Max Temp (°C)	29	31	32	29	23
Min Temp (°C)	19	20	21	21	18
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	99	98	99	100	100
Min RH (%)	76	59	55	66	99
Wind Speed (Kmph)	2	2	2	3	2
Wind Direction	W	E	W	W	S

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-32⁰C and 18-21⁰C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 55-99%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Dense cloudy sky weather will prevail during the next five days.

Weekly cumulative rainfall: 54.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	9	5	0	8	11
Max Temp (°C)	29	31	32	29	23
Min Temp (°C)	19	19	20	21	18
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	99	100	100
Min RH (%)	82	60	58	68	99
Wind Speed (Kmph)	2	2	2	3	2
*Wind Direction	N	N-W	W	S	S-E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 23-32⁰C and 18-21⁰C. Maximum relative humidity is expected in the range of 99-100% and minimum may from 58-99%. Wind direction would be southeasterly with the wind speed of 2-3 km per hour. Moderate cloud cover will prevail during the next five days.

Weekly cumulative rainfall: 33.0 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"> • Prune the diseased and dead twigs. • Wound dressing with Bordeaux paste and



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	MAMIT AIZAWL CHAMPAI SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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Guwahati)



		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Serchhip

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	8	8	4	8	11
Max Temp (°C)	29	31	31	28	23
Min Temp (°C)	19	19	20	21	17
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	100	100	100	100
Min RH (%)	74	58	59	71	98
Wind Speed (Kmph)	0	2	2	5	2
Wind Direction	N-W	W	W	S-W	S-E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of moderate to light rainfall during the next 5 day. The maximum and minimum temperatures for the next 5 days may range for 23-31⁰C and 19-21⁰C. Maximum relative humidity is expected in the range of 100% and minimum may from 58-98%. Wind direction would be south-easterly with the wind speed of 0-5 km per hour. Moderate cloudy weather will prevail during the next five days.

Weekly cumulative rainfall: 39.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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District: Mamit

Period: 17-21 September, 2014

Bulletin No: -450/2014/ Bulletin/English

Dated: 16th September, 2014

Parameters	17-09-2014	18-09-2014	19-09-2014	20-09-2014	21-09-2014
Rainfall (mm)	4	3	0	7	8
Max Temp (°C)	30	32	32	31	24
Min Temp (°C)	21	22	23	23	20
Cloud Coverage	Mainly cloudy	Mainly clear	Mainly cloudy	Mainly cloudy	Mainly cloudy
Max RH (%)	100	99	98	100	100
Min RH (%)	82	64	61	70	99
Wind Speed (Kmph)	2	2	2	4	3
Wind Direction	S-W	S-E	W	S-W	S-E

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

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

Kolasib- 372.1mm (19.16)	Champhai- 329.7mm (-28.00)	Mamit-376.0 mm (-20.69)	Aizawl-378.0mm (7.33)
Serchhip- 166.7 mm (-32.04)	Lawngtalia- 365.4 mm (-64.68)	Lunglei- 371.4 mm (-16.55)	Chhimtuipui- 367.8 mm (-32.04)

**Weather summary of the past
three days**

**Weather forecast valid from 17th September, 2014 To 21st
September, 2014.**

There is a chance of light rainfall during the next 4 day. The maximum and minimum temperatures for the next 5 days may range for 24-32⁰C and 20-23⁰C. Maximum relative humidity is expected in the range of 98-100% and minimum may from 61-99%. Wind direction would be easterly with the wind speed of 2-4 km per hour. Moderate cloudy weather will prevail during the next five days.

Weekly cumulative rainfall: 22.0mm

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



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			mulch with dry grass to conserve moisture and suppress the growth of weed. • For canker, spray streptomycin 2g + copperoxychloride 8 g /10 lt of water. • Excess water removes from the base of the plant.
Banana	Vegetative/ harvesting	KOLASIB MAMIT AIZAWL CHAMPAI	<ul style="list-style-type: none"> ✓ Remove water sucker, keep 1or 2 plants in a single place. ✓ Remove sword sucker and use it as new planting material. ✓ Excess water removes from the base of the plant. ✓ Fertilizer application in split dose of recommended dose. ✓ Harvest fruits when the flower tips of the fruit dehiscent.
Pineapple	Vegetative stage	SERCHHIP	<ul style="list-style-type: none"> ○ Clean the vicinity of plants by weeding and loosen up the soil. ○ Remove slips and use it as a new planting material. ○ Sucker dipping treatment with Bavistin @ 3g + Chloropyriphos @ 1 g/lt of water to protect against soil borne disease and insect. ○ Weeding and intercultural operation.
Cucurbits	Vegetative stage	LUNGLEI	<ul style="list-style-type: none"> ✚ Nursery raising for offseason cucurbits.
		Damping off	<ul style="list-style-type: none"> ✓ 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.
Brinjal	Vegetative stage	LAWNGTLAI SAIHA	<ul style="list-style-type: none"> ❖ Weeding near the plant ❖ Fertilizer application in split dose of recommended dose. ❖ Draining of excess water and preparation mound near the base.
		Disease:	<ul style="list-style-type: none"> ○ Seed treatment with captan, thiram or



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		Damping off-	chlorothalonil will effectively control this disease.
		Pest:	○ Sulfur fungicides can be used to control this pest.
Cowpea	Vegetative stage	Mites and hoppers-	<ul style="list-style-type: none"> ✚ Trilling into bower structure. ✚ Weeding near the plant ✚ Draining of excess water and preparation mound near the base.
		Scab and leaf blight disease	✓ Use of resistant varieties.
Early Cole crop	Nursery stage	Land preparation	<ul style="list-style-type: none"> ✓ Nursery preparation for cabbage, cauliflower, broccoli and knolkhol. ✚ Raised bed, nursery bed solarisation. ✚ Bed should be 1m width and conventional length. ✚ Application of FYM (1.5-2.0 kg/ m²) ✚ Line sowing of seeds (7-10cm)
		Damping off	<ul style="list-style-type: none"> ✓ 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.
		Mustard sawfly	✓ Application of carbofuran 3G @ 100g/m ² in nursery is quite effective.
Ginger & Turmeric	Vegetation stage		✓ Weeding in turmeric and ginger field.
		Leaf spot and leaf blotch	<ul style="list-style-type: none"> ○ Spraying Dithane M-45 @ 2.5g/litre of 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.
Maize	Flowering stage		<ul style="list-style-type: none"> ✓ Weeding in maize plot ✓ Topdressing with urea fertilizer.
		Pest:	
		Corn earworm	- If earworm damage occurs, clipp off the tip of the ear and any affected kernels. The rest of should be fine to eat.



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		Birds	<ul style="list-style-type: none"> - Crop rotation with leguminous crop. - Reflecting tape poly propylene metallic shine tape and the other silver that reflects sunlight causing flashing effect is effective in scaring birds. - Automatic acetylene exploders or birds scaring gun that produce periodically loud noise have been suggested.
Rice	Flowering Stage		<ul style="list-style-type: none"> ✓ One hand weed will require. ✓ Application of split dose of Urea.
		Rice Stem borer	<ul style="list-style-type: none"> ▪ Destroy egg masses. ▪ Spraying of monocrotophos 20ml/10lt water or Imidacloprid 20ml/10lt water.
		Gundhi bug	<ul style="list-style-type: none"> ▪ Spray monocrotophos 36 WSC @ 1.5 ml/lt or endosulfan 35 EC @ 1.5 ml/ml ▪ Insecticide application should be done if the population reaches ETL of 1 nymph or adult/ hill.
		Leaf blast	<ul style="list-style-type: none"> ▪ Judicious application of nitrogenous fertilizer. ▪ Spraying with triclozole (Beam) @0.5gm/lt or edifenphos @ 1ml/lt when first symptom are notice.
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"> • 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 ₂ B vaccine for adult birds.
	Early stage	Coccidiosis	1. Amprolium or coccidiostat



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