



**ICAR RESEARCH COMPLEX FOR NEH
REGION, UMROI ROAD, BARAPANI UMIAM,
MEGHALAYA**

**AAS BULLETIN FOR EAST KHASI
HILLS DISTRICT**

**AMFU, AGRICULTURAL RESEARCH
STATION**



Bulletin No:	0076/2015/1553	Period:	09/06/2015 to 13/06/2015
Issued On: 09/06/2015			

Weather condition of last four days

	Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed (Kmph)	Wind Direction (deg)
04/06	CHERRAPUNJI	2.80	24.10	19.20	8.00	85.00	80.00	0.00	Calm
04/06	SHILLONG (CSO)		25.00	17.60	6.00	82.00	82.00	1.60	SW
05/06	CHERRAPUNJI		24.20	19.20	8.00	94.00	82.00	8.00	SW
05/06	SHILLONG (CSO)	15.80	24.40	17.90	7.00	67.00	0.00	8.00	SW
07/06	CHERRAPUNJI	340.20	23.40	18.00	8.00	97.00	88.00	0.00	Calm
07/06	SHILLONG (CSO)	1.30	25.00	18.40	8.00	72.00	65.00	9.60	SW
08/06	CHERRAPUNJI	578.60		17.30	8.00	0.00		3.20	SW
08/06	SHILLONG (CSO)	4.00		18.00	6.00	69.00		8.00	SW
09/06	CHERRAPUNJI	404.40	22.20	17.40	8.00	97.00	94.00	4.80	SW
09/06	SHILLONG (CSO)	1.50	24.90	18.10	6.00	67.00	63.00	12.80	SW

Weather forecast for next five days in EAST KHASI HILLS district

	Rainfall (mm)	Max Temperature(°C)	Min Temperature(°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	98	24	18	7	99	68	6	137
11/06	102	25	18	8	98	90	6	78
12/06	84	24	18	8	98	90	4	67
13/06	81	24	18	8	99	90	6	82
14/06	48	24	18	8	99	96	7	68

Weather summary of the preceding week	Weather forecast valid
	Heavy rains may occur. Next week, the minimum and maximum temperature range between 18.0-18.0 and 24.0-25.0 Deg. C. The minimum and maximum relative humidity range between 68.0-96.0 and 98.0-99.0 %. Eastern winds blow at a speed of 4.0-7.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to		Give one hand weeding. Increased in temperature and humidity is congenial for

		Fruit Setting		attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BOTTLE GOURD,ASH GOURD (PETHA)	Fruiting		Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses. Support of bamboo structure for climbing upward may be raised for proper growth. For management of Powdery Mildew: Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.
3	BRINJAL	Flowering to Fruit Setting/ Harvesting		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
4	PADDY (DHAN)	Active Tillering		Farmers should grow nitrogen fixing leguminous crops like, red gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil fertility. Small quantity of urea @35 kg/ha as top dressing may be apply after 20-25 days after sowing after hand weeding. Management of Blast: High relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb@ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.
5	PADDY (DHAN)	Nursery Preparation		Kharif rice: Start preparing raised nursery bed of size 10m (length) × 1.25m (width) × 10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYVâ€™s like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc. Main field preparation: Repair old bunds by maintaining 20-30 cm height in lowland and 15-20 cm in upland. 2-3 times ploughing followed by laddering is sufficient. Apply organic manures like FYM or Composts before 15 days of transplanting and mixed with soil during ploughing.
6	TOMATO	Flowering to Fruit Setting		Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks. For management of fruit borer: Spray of Malathion (3ml/l) or Endosulphan (2.5ml/l) or Rogor (1.0ml/l) at 10-15days interval for control of fruit borer. Avoid tomato fruits for consumption up to 7-10 days after the spray of the chemicals.
7	TURMERIC,GINGER	Establishment to Vegetative Growth		Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.
8	Cattle			Farmers should undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter by consulting with the veterinary practitioner.



**ICAR RESEARCH COMPLEX FOR NEH
REGION,UMROI ROAD,BARAPANI
UMIAM, MEGHALAYA**

**AAS BULLETIN FOR RI BHOI DISTRICT
AMFU,AGRICULTURAL RESEARCH
STATION**



Bulletin No:	0076/2015/1549	Period:	09/06/2015 to 13/06/2015
Issued On:09/06/2015			

Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature(°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in RI BHOI district

	Rainfall (mm)	Max Temperature(°C)	Min Temperature(°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	102	30	22	6	99	67	4	115
11/06	41	27	21	8	99	86	3	103
12/06	47	28	21	8	97	76	2	80
13/06	63	28	21	8	100	85	4	83
14/06	34	27	21	8	99	94	5	72

Weather summary of the preceding week	Weather forecast valid
	Heavy rains may occur.Next week,the minimum and maximum temperature range between21.0-22.0 and 27.0-30.0 Deg.C.The minimum and maximum relative humidity range between 67.0-94.0 and 97.0-100.0 %.Eastern winds blow at a speed of2.0-5.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to Fruit Setting		Give one hand weeding. Increased in temperature and humidity is congenial for attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BRINJAL	Flowering to Fruit Setting/Picking		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
3	GROUNDNUT (PEA NUT/MUNG PHALLI)	Sowing		Continue sowing of HYV's like ICGS 76, JL 24, etc by maintaining a spacing of 30cm \bar{A} — 10-15cm. Required seed rate is 60-70 kg/ha. Seed treatment should be done with systematic fungicide like Thiram or Captaf @ 3g/kg of seed to protect the plant from fungal diseases. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing.

4	PADDY (DHAN)	Active Tillering	Jhum Rice: Farmers should grow nitrogen fixing leguminous crops like, red gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil fertility. Small quantity of urea @35 kg/ha as top dressing may be apply after 20-25 days after sowing after hand weeding. Management of Blast: High relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb@ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.
5	PADDY (DHAN)	Grain Maturity	Boro Rice: Drain out water from the fields if the crop is in maturity stage. Harvest the crop in sunny dry weather if 80 % of the spikelet and leaves turned yellow and dry properly before storing. After harvesting the rice, dry it properly before storing.
6	PADDY (DHAN)	Nursery Preparation	Kharif rice: Start preparing raised nursery bed of size 10m (length) × 1.25m (width) ×10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYV's like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc.
7	PIGEON PEA (RED GRAM/ARHAR)	Sowing	Prepare the field by ploughing 2-3 times followed by laddering. Apply 10-13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing and start sowing of HYV's like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 & Sarita (long duration) at a spacing of 40-60 row to row & 10-15 plant to plant (Short duration); 60-120 p-p & 15-20 row to row (Long duration) Give a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.
8	SOYBEAN (BHAT)	Sowing	Continue sowing of soyabean varieties like JS 335, Bragg, Ankur, Pusa Soubean-1, Local JS 2. Maintain a spacing of 45cm ×10cm & seed rate of 50-60kg/ha. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing. Seed inoculation with Rhizobium: Treat the seed with Rhizobium @ 150g/10kg of seed. Mix thoroughly the seed with the culture in a bucket/container and dry in shade for 20-30 mins and sown immediately.
9	TOMATO	Flowering to Fruit Setting	Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks. For management of fruit borer: Spray of Malathion (3ml/l) or Endosulphan (2.5ml/l) or Rogor (1.0ml/l) at 10-15days interval for control of fruit borer. Avoid tomato fruits for consumption up to 7-10 days after the spray of the chemicals.
10	TURMERIC ,GINGER	Vegetative Growth to Establishment	Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.
11	Pig		Provide plenty of fresh and clean during this hot period. Deworming of pig/piglets with Albendazole (5-10mg/kg body wt.) should be done regularly. Vaccinate all new born piglets against swine fever by consulting with veterinary practitioner.
12	Poultry		Keep the poultry house well ventilated and provide water with 1% salt, mineral mixture to cope up with the present hot & humid weather condition.



**ICAR RESEARCH COMPLEX FOR NEH
REGION,UMROI ROAD,BARAPANI
UMIAM, MEGHALAYA**

**AAS BULLETIN FOR SOUTH GARO
HILLS DISTRICT**

**AMFU,AGRICULTURAL RESEARCH
STATION**



Bulletin No:	0076/2015/1549	Period:	09/06/2015 to 13/06/2015
Issued On:09/06/2015			

Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in SOUTH GARO HILLS district

	Rainfall (mm)	Max Temperature(°C)	Min Temperature(°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	39	31	23	6	96	71	8	100
11/06	48	30	23	8	98	82	12	81
12/06	35	28	23	8	98	93	8	92
13/06	56	30	23	8	99	88	12	91
14/06	38	28	23	8	98	91	15	88

Weather summary of the preceding week	Weather forecast valid
	Rather heavy rains may occur.Next week,the minimum and maximum temperature range between23.0-23.0 and 28.0-31.0 Deg.C.The minimum and maximum relative humidity range between 71.0-93.0 and 96.0-99.0 % .Eastern winds blow at a speed of8.0-15.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to Fruit Setting		Give one hand weeding. Increased in temperature and humidity is congenial for attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BRINJAL	Flowering to Fruit Setting/ Picking		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
3	GROUNDNUT (PEA NUT/MUNG PHALLI)	Sowing		Continue sowing of HYV,s like ICGS 76, JL 24, etc by maintaining a spacing of 30cm ×10-15cm. Required seed rate is 60-70 kg/ha. Seed treatment should be done with systematic fungicide like Thiram or Captaf @ 3g/kg of seed to protect the plant from fungal diseases. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing.
4	PADDY (DHAN)	Active Tillering		Jhum Rice: Farmers should grow nitrogen fixing leguminous crops like, red gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil

			<p>fertility. Small quantity of urea @35 kg/ha as top dressing may be apply after 20-25 days after sowing after hand weeding.</p> <p>Management of Blast: High relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb @ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.</p>
5	PADDY (DHAN)	Grain Maturity	<p>Boro Rice: Drain out water from the fields if the crop is in maturity stage. Harvest the crop in sunny dry weather if 80 % of the spikelet and leaves turned yellow and dry properly before storing. After harvesting the rice, dry it properly before storing.</p>
6	PADDY (DHAN)	Nursery Preparation	<p>Kharif rice: Start preparing raised nursery bed of size 10m (length) × 1.25m (width) × 10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYVâ€™s like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc.</p>
7	PIGEON PEA (RED GRAM/ARHAR)	Sowing	<p>Prepare the field by ploughing 2-3 times followed by laddering. Apply 10 - 13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing and start sowing of HYV's like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 & Sarita (long duration) at a spacing of 40-60 row to row & 10-15 plant to plant (Short duration); 60-120 p-p & 15-20 row to row (Long duration) Give a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.</p>
8	SOYBEAN (BHAT)	Sowing	<p>Continue sowing of soyabean varieties like JS 335, Bragg, Ankur, Pusa Soubean-1, Local JS 2. Maintain a spacing of 45cm ×10cm & seed rate of 50-60kg/ha. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing. Seed inoculation with Rhizobium: Treat the seed with Rhizobium @ 150g/10kg of seed. Mix thoroughly the seed with the culture in a bucket/container and dry in shade for 20-30 mins and sown immediately.</p>
9	TURMERIC ,GINGER	Establishment to Vegetative Growth	<p>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.</p>
10	Pig		<p>Provide plenty of fresh and clean during this hot period. Deworming of pig/piglets with Albendazole (5-10mg/kg body wt.) should be done regularly. Vaccinate all new born piglets against swine fever by consulting with veterinary practitioner.</p>
11	Poultry		<p>Keep the poultry house well ventilated and provide water with 1% salt, mineral mixture to cope up with the present hot & humid weather condition.</p>



**ICAR RESEARCH COMPLEX FOR NEH
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MEGHALAYA**

**AAS BULLETIN FOR WEST GARO
HILLS DISTRICT**

**AMFU, AGRICULTURAL RESEARCH
STATION**



Bulletin No: 0076/2015/1549 Period: 09/06/2015 to 13/06/2015

Issued On: 09/06/2015

Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in WEST GARO HILLS district

	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	50	31	23	6	96	75	7	74
11/06	25	31	23	8	98	81	12	73
12/06	33	28	24	8	98	89	6	91
13/06	40	30	24	8	99	88	12	75
14/06	27	28	23	8	98	89	15	84

Weather summary of the preceding week	Weather forecast valid
	Rather heavy rains may occur. Next week, the minimum and maximum temperature range between 23.0-24.0 and 28.0-31.0 Deg.C. The minimum and maximum relative humidity range between 75.0-89.0 and 96.0-99.0 %. Eastern winds blow at a speed of 6.0-15.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to Fruit Setting		Give one hand weeding. Increased in temperature and humidity is congenial for attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BRINJAL	Flowering to Fruit Setting/ Picking		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
3	GROUNDNUT (PEA NUT/MUNG PHALLI)	Sowing		Continue sowing of HYVâ€™s like ICGS 76, JL 24, etc by maintaining a spacing of 30cm x 10-15cm. Required seed rate is 60-70 kg/ha. Seed treatment should be done with systematic fungicide like Thiram or Captaf @ 3g/kg of seed to protect the plant from fungal diseases. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing.
4	PADDY (DHAN)	Active Tillering		Jhum Rice: Farmers should grow nitrogen fixing leguminous crops like, red gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil fertility. Small quantity of urea @ 35 kg/ha as top dressing may be apply

			after 20-25 days after sowing after hand weeding. Management of Blast: High relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb@ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.
5	PADDY (DHAN)	Grain Maturity	Boro Rice: Drain out water from the fields if the crop is in maturity stage. Harvest the crop in sunny dry weather if 80 % of the spikelet and leaves turned yellow and dry properly before storing. After harvesting the rice, dry it properly before storing.
6	PADDY (DHAN)	Nursery Preparation	Kharif rice: Start preparing raised nursery bed of size 10m (length) × 1.25m (width) × 10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYV's like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc.
7	PIGEON PEA (RED GRAM/ARHAR)	Sowing	Prepare the field by ploughing 2-3 times followed by laddering. Apply 10 - 13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing and start sowing of HYV's like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 & Sarita (long duration) at a spacing of 40-60 row to row & 10-15 plant to plant (Short duration); 60-120 p-p & 15-20 row to row (Long duration) Give a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.
8	SOYBEAN (BHAT)	Sowing	Continue sowing of soyabean varieties like JS 335, Bragg, Ankur, Pusa Soubean-1, Local JS 2. Maintain a spacing of 45cm × 10cm & seed rate of 50-60kg/ha. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing. Seed inoculation with Rhizobium: Treat the seed with Rhizobium @ 150g/10kg of seed. Mix thoroughly the seed with the culture in a bucket/container and dry in shade for 20-30 mins and sown immediately.
9	TURMERIC ,GINGER	Establishment to Vegetative Growth	Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.
10	Pig		Provide plenty of fresh and clean during this hot period. Deworming of pig/piglets with Albendazole (5-10mg/kg body wt.) should be done regularly. Vaccinate all new born piglets against swine fever by consulting with veterinary practitioner.
11	Poultry		Keep the poultry house well ventilated and provide water with 1% salt, mineral mixture to cope up with the present hot & humid weather condition.



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**AAS BULLETIN FOR WEST JAINTA
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STATION**



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Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in WEST JAINTA HILLS district

	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	0	0	0	0	0	0	0	0
11/06	0	0	0	0	0	0	0	0
12/06	0	0	0	0	0	0	0	0
13/06	0	0	0	0	0	0	0	0
14/06	0	0	0	0	0	0	0	0

Weather summary of the preceding week	Weather forecast valid
	Dry weather may prevail in coming days.Next week,the minimum and maximum temperature range between0.0-0.0 and 0.0-0.0 Deg.C.The minimum and maximum relative humidity range between 0.0-0.0 and 0.0-0.0 % .North-Eastern winds blow at a speed of0.0-0.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to Fruit Setting		Give one hand weeding. Increased in temperature and humidity is congenial for attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BRINJAL	Flowering to Fruit Setting/ Picking		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
3	GROUNDNUT (PEA NUT/MUNG PHALLI)	Sowing		Continue sowing of HYVâ€™s like ICGS 76, JL 24, etc by maintaining a spacing of 30cm Ã— 10-15cm. Required seed rate is 60-70 kg/ha. Seed treatment should be done with systematic fungicide like Thiram or Captaf @ 3g/kg of seed to protect the plant from fungal diseases. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing.
4	PADDY	Active		Jhum Rice: Farmers should grow nitrogen fixing leguminous crops like, red

	(DHAN)	Tillering		gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil fertility. Small quantity of urea @35 kg/ha as top dressing may be apply after 20-25 days after sowing after hand weeding.
5	PADDY (DHAN)	Grain Maturity		Boro Rice: Drain out water from the fields if the crop is in maturity stage. Harvest the crop in sunny dry weather if 80 % of the spikelet and leaves turned yellow and dry properly before storing. After harvesting the rice, dry it properly before storing.
6	PADDY (DHAN)	Nursery Preparation		Kharif rice: Start preparing raised nursery bed of size 10m (length) × 1.25m (width) × 10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYVâ€™s like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc.
7	PIGEON PEA (RED GRAM/ARHAR)	Sowing		Prepare the field by ploughing 2-3 times followed by laddering. Apply 10-13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing and start sowing of HYVâ€™s like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 & Sarita (long duration) at a spacing of 40-60 row to row & 10-15 plant to plant (Short duration); 60-120 p-p & 15-20 row to row (Long duration) Give a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.
8	SOYBEAN (BHAT)	Sowing		Continue sowing of soyabean varieties like JS 335, Bragg, Ankur, Pusa Soubean-1, Local JS 2. Maintain a spacing of 45cm × 10cm & seed rate of 50-60kg/ha. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing. Seed inoculation with Rhizobium: Treat the seed with Rhizobium @ 150g/10kg of seed. Mix thoroughly the seed with the culture in a bucket/container and dry in shade for 20-30 mins and sown immediately.
9	TOMATO	Flowering to Fruit Setting		Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks. For management of fruit borer: Spray of Malathion (3ml/l) or Endosulphan (2.5ml/l) or Rogor (1.0ml/l) at 10-15days interval for control of fruit borer. Avoid tomato fruits for consumption up to 7-10 days after the spray of the chemicals.
10	TURMERIC ,GINGER	Establishment to Vegetative Growth		Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.
11	Pig			Provide plenty of fresh and clean during this hot period. Deworming of pig/piglets with Albendazole (5-10mg/kg body wt.) should be done regularly. Vaccinate all new born piglets against swine fever by consulting with veterinary practitioner.
12	Poultry			Keep the poultry house well ventilated and provide water with 1% salt, mineral mixture to cope up with the present hot & humid weather condition.



**ICAR RESEARCH COMPLEX FOR NEH
REGION,UMROI ROAD,BARAPANI
UMIAM, MEGHALAYA**

**AAS BULLETIN FOR WEST KHASI
HILLS DISTRICT**

**AMFU,AGRICULTURAL RESEARCH
STATION**



Bulletin No:	0076/2015/1553	Period:	09/06/2015 to 13/06/2015
Issued On:09/06/2015			

Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in WEST KHASI HILLS district

	Rainfall (mm)	Max Temperature(°C)	Min Temperature(°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	91	26	18	6	99	69	7	108
11/06	57	25	18	8	99	89	7	84
12/06	55	25	18	8	98	88	5	91
13/06	67	25	18	8	99	89	8	80
14/06	41	25	18	8	99	91	9	74

Weather summary of the preceding week	Weather forecast valid
	Heavy rains may occur.Next week,the minimum and maximum temperature range between18.0-18.0 and 25.0-26.0 Deg.C.The minimum and maximum relative humidity range between 69.0-91.0 and 98.0-99.0 %.Eastern winds blow at a speed of5.0-9.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BHINDI	Flowering to Fruit Setting		Give one hand weeding. Increased in temperature and humidity is congenial for attack of White fly & Aphids. If attack is seen farmers are advised to spray Dimethoate 30 EC 2ml/l combined with Neem Seed Kernal Extract 5%.
2	BOTTLE GOURD ,ASH GOURD (PETHA)	Fruiting		Mulching with locally available materials like straw, grasses may be done to reduce evaporation loses. Support of bamboo structure for climbing upward may be raised for proper growth. For management of Powdery Mildew: Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.
3	BRINJAL	Flowering to Fruit Setting/ Harvesting		Weeding and earthing up may be done now. Provide mulching materials like straw, grasses, etc to reduce evaporation loses. Start harvesting the mature fruit. For management of Shoot & fruit borer : Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
4	PADDY (DHAN)	Active Tillering		Jhum Rice: Farmers should grow nitrogen fixing leguminous crops like, red gram, soyabean, rice bean as intercrop or on the field bunds to maintain soil fertility. Small quantity of urea @35 kg/ha as top dressing may be apply after 20-25 days after sowing after hand weeding. Management of Blast: High

			<p>relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb@ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.</p> <p>Management of Blast: High relative humidity with intermittent rain is favourable for development of blast in rice, If blast spot are seen farmers are advised to apply mancozeb@ 2g/l or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.</p>
5	PADDY (DHAN)	Nursery Preparation	<p>Kharif rice: Start preparing raised nursery bed of size 10m (length) ×1.25m (width) ×10cm (height) with 30cm wide channel between the two seed beds. Apply cow dung or compost @10-15kg/seed bed plus a starter dose of urea 80g, SSP 225g, MOP 40g per seed bed. Sow HYV's like Shahsarang -1, Lampnah, IR 64, Ranjit, RCPL 1-412, RCPL 1-410, RCPL 1-411 & local varieties like Mendri, Manipuri, etc maintaining a seed rate of 650-1000g/ bed (Nursery area of 500-600 sqm. is sufficient for transplanting of 1ha). Before sowing seeds should be treated with Mancozeb @ 2.5g/litre or Bavistin 50WP @ 2g/l with water for 24hr to protect the crop from blast, Sheath blight, brown spot, sheath rot, etc.</p> <p>Main field preparation Repair old bunds by maintaining 20-30 cm height in lowland and 15-20 cm in upland. 2-3 times ploughing followed by laddering is sufficient. Apply organic manures like FYM or Composts before 15 days of transplanting and mixed with soil during ploughing.</p>
6	TOMATO	Flowering to Fruit Setting	<p>Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks.</p> <p>For management of fruit borer: Spray of Malathion (3ml/l) or Endosulphan (2.5ml/l) or Rogor (1.0ml/l) at 10-15days interval for control of fruit borer. Avoid tomato fruits for consumption up to 7-10 days after the spray of the chemicals.</p>
7	TURMERIC, GINGER	Establishment to Vegetative Growth	<p>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.</p>
8	Cattle		<p>Farmers should undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter by consulting with the veterinary practitioner.</p>



**ICAR RESEARCH COMPLEX FOR NEH
 REGION,UMROI ROAD,BARAPANI
 UMIAM, MEGHALAYA**
**AAS BULLETIN FOR EAST GARO
 HILLS DISTRICT**
**AMFU,AGRICULTURAL RESEARCH
 STATION**



Bulletin No:	0076/2015/1549	Period:	09/06/2015 to 13/06/2015
Issued On:09/06/2015			

Weather condition of last four days

Station Name	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
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Weather forecast for next five days in EAST GARO HILLS district

	Rainfall (mm)	Max Temperature (°C)	Min Temperature (°C)	Total cloud cover(octa)	Max Relative Humidity(%)	Min Relative Humidity(%)	Wind Speed(Kmph)	Wind Direction(deg)
10/06	56	31	24	6	98	71	8	88
11/06	37	30	24	8	98	86	9	78
12/06	36	30	24	8	98	90	6	99
13/06	49	30	24	8	99	89	10	78
14/06	36	29	23	8	99	89	12	80

Weather summary of the preceding week	Weather forecast valid
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Rather heavy rains may occur.Next week,the minimum and maximum temperature range between23.0-24.0 and 29.0-31.0 Deg.C.The minimum and maximum relative humidity range between 71.0-90.0 and 98.0-99.0 %.Eastern winds blow at a speed of6.0-12.0 kmph

General Advisory

Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc. Start preparation of nursery and sowing of Kharif rice without delay.

Crop Advisory

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3	GROUNDNUT (PEA NUT/MUNG PHALLI)	Sowing		Continue sowing of HYV's like ICGS 76, JL 24, etc by maintaining a spacing of 30cm ×10-15cm. Required seed rate is 60-70 kg/ha. Seed treatment should be done with systematic fungicide like Thiram or Captaf @ 3g/kg of seed to protect the plant from fungal diseases. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and

				mix well with the soil at the time of sowing.
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8	SOYBEAN (BHAT)	Sowing		Continue sowing of soyabean varieties like JS 335, Bragg, Ankur, Pusa Soubean-1, Local JS 2. Maintain a spacing of 45cm × 10cm & seed rate of 50-60kg/ha. Apply urea @ 44kg/ha, 375 kg/ha SSP & 67 kg/ha MOP in the furrow below the seed and mix well with the soil at the time of sowing. Seed inoculation with Rhizobium: Treat the seed with Rhizobium @ 150g/10kg of seed. Mix thoroughly the seed with the culture in a bucket/container and dry in shade for 20-30 mins and sown immediately.
9	TURMERIC ,GINGER	Vegetative Growth to Establishment		Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea & MOP @ 41.75 kg/ha in ginger & urea @ 65.1 kg/ha, MOP @ 100.2 kg/ha in turmeric followed by earthing up at 45DAP. Make channels between the beds for draining of excess water and weeding.
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