



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

**AAS BULLETIN FOR SOUTH GARO  
HILLS DISTRICT**

**AMFU, AGRICULTURAL RESEARCH  
STATION**



Bulletin No:	0076/2015/2188	Period:	17/07/2015 to 21/07/2015
Issued On: 17/07/2015			

**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)
18/07	24	28	24	8	97	85	7	122
19/07	99	26	23	8	98	94	8	89
20/07	38	27	23	8	96	90	5	99
21/07	30	33	24	6	94	66	5	175
22/07	20	32	25	6	94	70	5	134

Weather summary of the preceding week	Weather forecast valid
	Rather heavy rains may occur. Next week, the minimum and maximum temperature range between 23.0-25.0 and 26.0-33.0 Deg.C. The minimum and maximum relative humidity range between 66.0-94.0 and 94.0-98.0 %. Eastern winds blow at a speed of 5.0-8.0 kmph

**General Advisory**

## Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN) ,GREEN GRAM (MOONG BEAN/ MOONG)	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea

			beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
6	TURMERIC ,GINGER	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.
7	Cattle	Land Preparation	Keep the cattle shed hygienic by fumigation and white washing of walls with lime Kept the animal indoor and avoid grazing in rain. Keep the animal shed dry & clean and avoid dampness. Provide balanced feed and clean water. Due to prevailing weather condition there is chance of growth of molds (especially Aspergillus spp.) and produced aflatoxins, therefore farmers are advised to keep the animals feeds in a dry & clean place & avoid direct contact with soil/ground.
8	Pig	Land Preparation	Pig shed/ stay should keep dry and avoid dampness during rainy days. Repair the roof of pig stay to protect from rain. All newly born piglets should be vaccinated against Swine fever at the age of 2 months followed by booster and annual dose by consulting with veterinary practitioner. Provide additional feed ingredients like broken rice wheat bran, broken maize along with kitchen waste, mineral mixture (20g/day). Deworming of pig/piglets with Albendazole (5-10mg/Kg body wt.) should be done.



**ICAR RESEARCH COMPLEX FOR NEH  
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MEGHALAYA**

**AAS BULLETIN FOR WEST GARO HILLS  
DISTRICT**

**AMFU, AGRICULTURAL RESEARCH  
STATION**



Bulletin No:	0076/2015/2188	Period:	17/07/2015 to 21/07/2015
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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 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)
18/07	28	29	24	8	97	80	7	108
19/07	68	27	24	8	97	93	8	84
20/07	35	27	23	8	97	89	4	104
21/07	20	33	24	5	94	63	6	182
22/07	20	32	25	6	95	66	5	135

Weather summary of the preceding week	Weather forecast valid
	Rather heavy rains may occur. Next week, the minimum and maximum temperature range between 23.0-25.0 and 27.0-33.0 Deg.C. The minimum and maximum relative humidity range between 63.0-93.0 and 94.0-97.0 %. Eastern winds blow at a speed of 4.0-8.0 kmph

**General Advisory**

## Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN) ,GREEN GRAM (MOONG BEAN/ MOONG)	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea

			beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
6	TURMERIC ,GINGER	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.
7	Cattle	Land Preparation	Keep the cattle shed hygienic by fumigation and white washing of walls with lime Kept the animal indoor and avoid grazing in rain. Keep the animal shed dry & clean and avoid dampness. Provide balanced feed and clean water. Due to prevailing weather condition there is chance of growth of molds (especially Aspergillus spp.) and produced aflatoxins, therefore farmers are advised to keep the animals feeds in a dry & clean place & avoid direct contact with soil/ground.
8	Pig	Land Preparation	Pig shed/ stay should keep dry and avoid dampness during rainy days. Repair the roof of pig stay to protect from rain. All newly born piglets should be vaccinated against Swine fever at the age of 2 months followed by booster and annual dose by consulting with veterinary practitioner. Provide additional feed ingredients like broken rice wheat bran, broken maize along with kitchen waste, mineral mixture (20g/day). Deworming of pig/piglets with Albendazole (5-10mg/Kg body wt.) should be done.



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**AAS BULLETIN FOR WEST KHASI HILLS  
DISTRICT**

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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 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)
18/07	25	29	23	7	98	85	3	143
19/07	58	27	22	8	97	92	4	96
20/07	20	28	22	7	94	83	3	135
21/07	27	31	23	5	95	66	4	165
22/07	17	32	23	5	94	66	4	154

Weather summary of the preceding week	Weather forecast valid
	Moderate to rather heavy rains may occur. Next week, the minimum and maximum temperature range between 22.0-23.0 and 27.0-32.0 Deg.C. The minimum and maximum relative humidity range between 66.0-92.0 and 94.0-98.0 %. South-Eastern winds blow at a speed of 3.0-4.0 kmph

**General Advisory**

## Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN) ,GREEN GRAM (MOONG BEAN/ MOONG)	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea

			beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
6	TURMERIC ,GINGER	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.
7	Orange	Planting	Planting of Khasi Mandarin may be done now. Make pit size of 1*1*1m at a spacing of 6*6m and plant the seedlings by keeping the grafted of budded at 30 cm above soil. Apply 350g Urea, 450g SSP, 200 g MOP and 100g Chloropyrifos per pit and mix thoroughly before planting.
8	Cattle	Land Preparation	Keep the cattle shed hygienic by fumigation and white washing of walls with lime Kept the animal indoor and avoid grazing in rain. Keep the animal shed dry & clean and avoid dampness. Provide balanced feed and clean water. Due to prevailing weather condition there is chance of growth of molds (especially Aspergillus spp.) and produced aflatoxins, therefore farmers are advised to keep the animals feeds in a dry & clean place & avoid direct contact with soil/ground.
9	Pig	Land Preparation	Pig shed/ stay should keep dry and avoid dampness during rainy days. Repair the roof of pig stay to protect from rain. All newly born piglets should be vaccinated against Swine fever at the age of 2 months followed by booster and annual dose by consulting with veterinary practitioner. Provide additional feed ingredients like broken rice wheat bran, broken maize along with kitchen waste, mineral mixture (20g/day). Deworming of pig/piglets with Albendazole (5-10mg/Kg body wt.) should be done.



**Agro Advisory Bulletin – West Jaintia Hills**  
**(Period 18<sup>th</sup> – 22<sup>nd</sup> July, 2015)**

**Weather forecast valid up to 22<sup>nd</sup> July, 2015**

There is possibility of light to rather heavy rain in the next five days. Sky may be generally cloudy to cloudy with a maximum and minimum temperature of 27-31°C & 22-23°C respectively. The expected relative humidity will be 93-99% (maximum) & 65-88% (minimum). Wind direction will be 92-121Degree at a speed of 2-3 kmph during the next five days.

*Weekly cumulative rainfall :137.0mm*

**Agro meteorological Advisories for coming 5 days**

Main Crop/ Animal /Fisheries	Stage	Pest/ Diseases	Agricultural Advisories
<b>Jhum Rice</b>	Panicle initiation stage  ASSAM		<ul style="list-style-type: none"> <li>Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT.</li> </ul>
		Blast	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Sali/Kharif Rice</b>	Transplanting		<ul style="list-style-type: none"> <li>Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) &amp; K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.</li> <li>Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.</li> <li>Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage.</li> <li>If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.</li> </ul>
<b>Groundnut</b>	Vegetative stage		<ul style="list-style-type: none"> <li>First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil.</li> <li>Avoid water stagnation in the field, provide good drainage system.</li> </ul>
		Aphid/ Leaf miner	<ul style="list-style-type: none"> <li>For control of major insect pests spray phosphamidon 100 EC @ 0.5 ml/ litre of water.</li> </ul>
<b>Soyabean</b>	Vegetative stage		<ul style="list-style-type: none"> <li>Provide good channels for removing excess water to avoid water stagnation in the field.</li> <li>First hand weeding should be taken up at 15DAS depending on the weed population.</li> </ul>
		Hairy caterpillar/ Semilooper/ Leaf roller/ Flea beetle.	<ul style="list-style-type: none"> <li>For management of pests like hairy caterpillar, semilooper, leaf roller and flea beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit</li> </ul>
<b>Brinjal</b>	Fruiting/ Picking		<ul style="list-style-type: none"> <li>Harvest the maturing of mature fruit.</li> <li>For management of Shoot &amp; fruit borer: Remove the affected</li> </ul>



# GRAMIN KRISHI MAUSAM SEWA

## ICAR Research Complex for NEH Region

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			terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.
<b>Pigeon Pea (Red Gram/Arhar)</b>	Sowing		<ul style="list-style-type: none"> <li>Continue sowing of Red gram HYV, s like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 &amp; Sarita (long duration) after the current spell of rain. Apply 10-13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing. Sowing should be done maintaining a spacing of 40-60 row to row &amp; 10-15 plant to plant (Short duration); 60-120 p-p &amp; 15-20 row to row (Long duration and apply a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.</li> </ul>
<b>Tomato</b>	Flowering to fruit setting		<ul style="list-style-type: none"> <li>Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks.</li> </ul>
		Fruit borer	<ul style="list-style-type: none"> <li>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.</li> </ul>
<b>Bottle Gourd/ Ash Gourd</b>	Fruit development		<ul style="list-style-type: none"> <li>Support of bamboo structure for climbing upward may be raised for proper growth.</li> </ul>
		Powdery mildew	<ul style="list-style-type: none"> <li>Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.</li> </ul>
<b>Ginger/ turmeric</b>	Vegetative stage		<ul style="list-style-type: none"> <li>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea &amp; MOP @ 41.75 kg/ha in ginger &amp; 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.</li> </ul>
<b>Water Harvesting</b>			<ul style="list-style-type: none"> <li>Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc.</li> </ul>
<b>Fishery</b>			
<b>Composite Fish Culture</b>		Pre-stocking management	<ul style="list-style-type: none"> <li>As there is sufficient water in the pond due to heavy rain in previous days, farmers are advise to clean up their ponds by removing unwanted vegetation, insects, etc.</li> <li>Apply Raw Cow Dung (RCD) @ 10,000 kg/ha, 15days before stocking of fingerlings.</li> <li>Liming should be done after checking the pH, apply lime @ 2000kg/ha (in 3-4 installements at 30 days intervals) if the pH is 4.5-5.0 &amp; 1200 kg/ha if the pH is 5.0-6.0 after 7 days of RCD application.</li> </ul>
		Stocking	<ul style="list-style-type: none"> <li>Release fingerlings of Catla: Rohu: Mrigal: Silver carp: Grass carp: Common carp in a ratio of 2: 2: 1.5: 2: 1: 1.5 @ 6000-7500 fingerlings/ ha into the pond.</li> </ul>
		Post- stocking management	<ul style="list-style-type: none"> <li>Feed: Provide well balanced feeds of rice polish and mustard cake in a ratio of 1:1 by wt. @ 3% of their body wt. of fishes. Chopped green vegetation should be provided for grass carp.</li> <li>Apply raw cow dung @ 1000kg/ha, Urea @ 25 kg/ha, SSP @ 30kg/ha and lime @25kg/ha regularly in every month.</li> </ul>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



**Agro Advisory Bulletin – North Garo Hills**  
**(Period 18<sup>th</sup> – 22<sup>nd</sup> July, 2015)**

**Weather forecast valid up to 22<sup>nd</sup> July, 2015**

There is possibility of moderate to rather heavy rain in the next five days. Sky may be generally cloudy to cloudy with a maximum and minimum temperature of 27-32°C & 23-26°C respectively. The expected relative humidity will be 97-99% (maximum) & 65-93% (minimum). Wind direction will be 77-208Degree at a speed of 3-6kmph during the next five days.

*Weekly cumulative rainfall :200.0mm*

**Agro meteorological Advisories for coming 5 days**

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Jhum Rice	Panicle initiation stage		<ul style="list-style-type: none"> <li>Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT.</li> </ul>
		Blast	<ul style="list-style-type: none"> <li>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 carbendazim @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.</li> </ul>
Sali/Kharif Rice	Transplanting		<ul style="list-style-type: none"> <li>Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) &amp; K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.</li> <li>Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.</li> <li>Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage.</li> <li>If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.</li> </ul>
Groundnut	Vegetative stage		<ul style="list-style-type: none"> <li>First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil.</li> <li>Avoid water stagnation in the field, provide good drainage system.</li> </ul>
		Aphid/ miner	<ul style="list-style-type: none"> <li>For control of major insect pests spray phosphamidon 100 EC @ 0.5 ml/ litre of water.</li> </ul>
Soyabean	Vegetative stage		<ul style="list-style-type: none"> <li>Provide good channels for removing excess water to avoid water stagnation in the field.</li> <li>First hand weeding should be taken up at 15DAS depending on the weed population.</li> </ul>
		Hairy caterpillar/ Semilooper/ Leaf roller/ Flea beetle	<ul style="list-style-type: none"> <li>For management of pests like hairy caterpillar, semilooper, leaf roller and flea beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit</li> </ul>



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<b>Brinjal</b>	Fruiting/ Picking		<ul style="list-style-type: none"> <li>Harvest the maturing of mature fruit.</li> <li>For management of Shoot &amp; fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.</li> </ul>
<b>Pigeon Pea (Red Gram/Arhar)</b>	Sowing		<ul style="list-style-type: none"> <li>Continue sowing of Red gram HYV,s like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 &amp; Sarita (long duration) after the current spell of rain. Apply 10-13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing. Sowing should be done maintaining a spacing of 40-60 row to row &amp; 10-15 plant to plant (Short duration); 60-120 p-p &amp; 15-20 row to row (Long duration and apply a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.</li> </ul>
<b>Bottle Gourd/ Ash Gourd</b>	Fruit development		<ul style="list-style-type: none"> <li>Support of bamboo structure for climbing upward may be raised for proper growth.</li> </ul>
		Powdery mildew	<ul style="list-style-type: none"> <li>Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.</li> </ul>
<b>Ginger/ turmeric</b>	Vegetative stage		<ul style="list-style-type: none"> <li>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea &amp; MOP @ 41.75 kg/ha in ginger &amp; 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.</li> </ul>
<b>Water Harvesting</b>			<ul style="list-style-type: none"> <li>Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc.</li> </ul>
<b>Fishery</b>			
<b>Composite Fish Culture</b>		Pre-stocking management	<ul style="list-style-type: none"> <li>As there is sufficient water in the pond due to heavy rain in previous days, farmers are advise to clean up their ponds by removing unwanted vegetation, insects, etc.</li> <li>Apply Raw Cow Dung (RCD) @ 10,000 kg/ha, 15days before stocking of fingerlings.</li> <li>Liming should be done after checking the pH, apply lime @ 2000kg/ha (in 3-4 installements at 30 days intervals) if the pH is 4.5-5.0 &amp; 1200 kg/ha if the pH is 5.0-6.0 after 7 days of RCD application.</li> </ul>
		Stocking	<ul style="list-style-type: none"> <li>Release fingerlings of Catla: Rohu: Mrigal: Silver carp: Grass carp: Common carp in a ratio of 2: 2: 1.5: 2: 1: 1.5 @ 6000-7500 fingerlings/ ha into the pond.</li> </ul>
		Post-stocking management	<ul style="list-style-type: none"> <li>Feed: Provide well balanced feeds of rice polish and mustard cake in a ratio of 1:1 by wt. @ 3% of their body wt. of fishes. Chopped green vegetation should be provided for grass carp.</li> <li>Apply raw cow dung @ 1000kg/ha, Urea @ 25 kg/ha, SSP @ 30kg/ha and lime @25kg/ha regularly in every month.</li> </ul>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



## **Agro Advisory Bulletin – South West Garo Hills** **(Period 18<sup>th</sup> – 22<sup>nd</sup> July, 2015)**

### **Weather forecast valid up to 22<sup>nd</sup> July, 2015**

There is possibility of moderate to rather heavy rain in the next five days. Sky may be generally cloudy to cloudy with a maximum and minimum temperature of 24-29°C & 22-23°C respectively. The expected relative humidity will be 96-98% (maximum) & 67-95% (minimum). Wind direction will be 69-179Degree at a speed of 2-8 kmph during the next five days.

*Weekly cumulative rainfall :221.0mm*

### **Agro meteorological Advisories for coming 5 days**

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
<b>Jhum Rice</b>	Panicle initiation stage  ASSAM	Blast	<ul style="list-style-type: none"> <li>Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT.</li> <li>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.</li> </ul>
<b>Sali/Kharif Rice</b>	Transplanting  WEST GARO HILLS SOUTH GARO HILLS BANGLADESH		<ul style="list-style-type: none"> <li>Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) &amp; K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.</li> <li>Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.</li> <li>Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage.</li> <li>If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.</li> </ul>
<b>Groundnut</b>	Vegetative stage	Aphid/ Leaf miner	<ul style="list-style-type: none"> <li>First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil.</li> <li>Avoid water stagnation in the field, provide good drainage system.</li> <li>For control of major insect pests spray phosphamidon 100 EC @ 0.5 ml/ litre of water.</li> </ul>
<b>Soyabean</b>	Vegetative stage	Hairy caterpillar/ Semilooper/ Leaf roller/ Flea beetle	<ul style="list-style-type: none"> <li>Provide good channels for removing excess water to avoid water stagnation in the field.</li> <li>First hand weeding should be taken up at 15DAS depending on the weed population.</li> <li>For management of pests like hairy caterpillar, semilooper, leaf roller and flea beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit</li> </ul>





## Agro Advisory Bulletin – South West Khasi Hills (Period 18<sup>th</sup> – 22<sup>nd</sup> July, 2015)

### Weather forecast valid up to 22<sup>nd</sup> July, 2015

There is possibility of light to rather heavy rain in the next five days. Sky may be generally cloudy to cloudy with a maximum and minimum temperature of 27-30°C & 20°C respectively. The expected relative humidity will be 94-97% (maximum) & 71-84% (minimum). Wind direction will be 58-164Degree at a speed of 4-7kmph during the next five days.

*Weekly cumulative rainfall :136.0mm*

### Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Jhum Rice	Panicle initiation stage	Blast	<ul style="list-style-type: none"> <li>Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT.</li> <li>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.</li> </ul>
Sali/Kharif Rice	Transplanting		<ul style="list-style-type: none"> <li>Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) &amp; K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.</li> <li>Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.</li> <li>Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage.</li> <li>If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.</li> </ul>
Brinjal	Fruiting/ Picking		<ul style="list-style-type: none"> <li>Harvest the maturing of mature fruit.</li> <li>For management of Shoot &amp; fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.</li> </ul>
Tomato	Flowering to fruit setting	Fruit borer	<ul style="list-style-type: none"> <li>Undertake one weeding and hoeing. Stake the plants with 1-1.5 m tall bamboo sticks.</li> <li>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.</li> </ul>
Bottle Gourd/ Ash Gourd	Fruit development	Powdery mildew	<ul style="list-style-type: none"> <li>Support of bamboo structure for climbing upward may be raised for proper growth.</li> <li>Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.</li> </ul>



# GRAMIN KRISHI MAUSAM SEWA

## ICAR Research Complex for NEH Region

### Umroi Road, Umiam – 793 103 Meghalaya



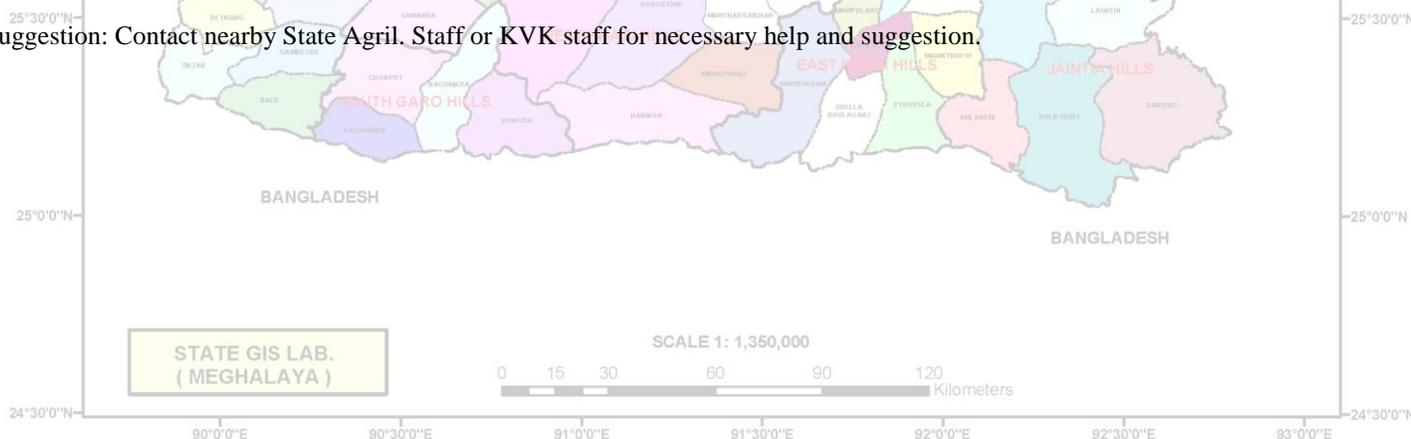
☎: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: [iaasbarapani@yahoo.in](mailto:iaasbarapani@yahoo.in)

<b>Ginger/ turmeric</b>	Establishment to Vegetative stage		<ul style="list-style-type: none"> <li>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea &amp; MOP @ 41.75 kg/ha in ginger &amp; 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.</li> </ul>
<b>Water Harvesting</b>			<ul style="list-style-type: none"> <li>Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc.</li> </ul>
<b>Khasi Mandarin</b>			<ul style="list-style-type: none"> <li>Apply 350g urea, 450g SSP, 200 MOP per tree of Khasi Mandarin during June/ July.</li> <li>Provide mulches like straw, farm grasses in the basins.</li> </ul>

#### Fishery

<b>Composite Fish Culture</b>		Pre-stocking management	<ul style="list-style-type: none"> <li>As there is sufficient water in the pond due to heavy rain in previous days, farmers are advise to clean up their ponds by removing unwanted vegetation, insects, etc.</li> <li>Apply Raw Cow Dung (RCD) @ 10,000 kg/ha, 15days before stocking of fingerlings.</li> <li>Liming should be done after checking the pH, apply lime @ 2000kg/ha (in 3-4 installements at 30 days intervals) if the pH is 4.5-5.0 &amp; 1200 kg/ha if the pH is 5.0-6.0 after 7 days of RCD application.</li> </ul>
		Stocking	<ul style="list-style-type: none"> <li>Release fingerlings of Catla: Rohu: Mrigal: Silver carp: Grass carp: Common carp in a ratio of 2: 2: 1.5: 2: 1: 1.5 @ 6000-7500 fingerlings/ ha into the pond.</li> </ul>
		Post-stocking management	<ul style="list-style-type: none"> <li>Feed: Provide well balanced feeds of rice polish and mustard cake in a ratio of 1:1 by wt. @ 3% of their body wt. of fishes. Chopped green vegetation should be provided for grass carp.</li> <li>Apply raw cow dung @ 1000kg/ha, Urea @ 25 kg/ha, SSP @ 30kg/ha and lime @ 25kg/ha regularly in every month.</li> </ul>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





## Agro Advisory Bulletin – East Jaintia Hills **(Period 18<sup>th</sup> – 22<sup>nd</sup> July, 2015)**

### Weather forecast valid up to 22<sup>nd</sup> July, 2015

There is possibility of light to rather heavy rain in the next five days. Sky may be generally cloudy to cloudy with a maximum and minimum temperature of 27-32°C & 22-23°C respectively. The expected relative humidity will be 93-98% (maximum) & 64-88% (minimum). Wind direction will be 92-121Degree at a speed of 2-3 kmph during the next five days.

*Weekly cumulative rainfall :137.0mm*

C & RD BLOCK MAP OF MEGHALAYA

### Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Jhum Rice	Panicle initiation stage	Blast	<ul style="list-style-type: none"> <li>Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT.</li> <li>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<sup>N</sup> or carbendazime @ 1g/l. Spraying should be done in sunny days and avoid if rain is predicted.</li> </ul>
Sali/Kharif Rice	Transplanting		<ul style="list-style-type: none"> <li>Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) &amp; K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.</li> <li>Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting.</li> <li>Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage.</li> <li>If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.</li> </ul>
Groundnut	Vegetative stage	Aphid/ Leaf miner	<ul style="list-style-type: none"> <li>First hand weeding should be given at 30-35DAS<sup>0</sup> (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil.</li> <li>Avoid water stagnation in the field, provide good drainage system.</li> <li>For control of major insect pests spray phosphamidon 100 EC @ 0.5 ml/ litre of water.</li> </ul>
Soyabean	Vegetative stage	Hairy caterpillar/ Semilooper/ Leaf roller/ Flea beetle	<ul style="list-style-type: none"> <li>Provide good channels for removing excess water to avoid water stagnation in the field.</li> <li>First hand weeding should be taken up at 15DAS depending on the weed population.</li> <li>For management of pests like hairy caterpillar, semilooper, leaf roller and flea beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit.</li> </ul>



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<b>Brinjal</b>	Fruiting/ Picking		<ul style="list-style-type: none"> <li>Harvest the maturing of mature fruit.</li> <li>For management of Shoot &amp; fruit borer: Remove the affected terminal shoot showing boreholes, fruits and destroy. Spray Neem Kernal Extract 5% at 15 days interval.</li> </ul>
<b>Pigeon Pea (Red Gram/Arhar)</b>	Sowing		<ul style="list-style-type: none"> <li>Continue sowing of Red gram HYV,s like UPAS-120, ICPL 87 (short duration), WB 20, Pusa 9 &amp; Sarita (long duration) after the current spell of rain. Apply 10-13 t/ha of FYM or compost and mixing thoroughly in the soil 1 - 2 weeks before sowing. Sowing should be done maintaining a spacing of 40-60 row to row &amp; 10-15 plant to plant (Short duration); 60-120 p-p &amp; 15-20 row to row (Long duration) and apply a starter dose of 10-15 kg N, 40-50kg P and 20kg S per ha at the time of sowing.</li> </ul>
<b>Bottle Gourd/ Ash Gourd</b>	Fruit development		<ul style="list-style-type: none"> <li>Support of bamboo structure for climbing upward may be raised for proper growth.</li> </ul>
		Powdery mildew	<ul style="list-style-type: none"> <li>Spray Bavistin 0.1% or Karathane wp 0.05% if white patches are seen on the leaves.</li> </ul>
<b>Ginger/ turmeric</b>	Establishment to Vegetative stage		<ul style="list-style-type: none"> <li>Farmers should undertake weeding operation, top dressing of urea @ 81.4 kg urea &amp; MOP @ 41.75 kg/ha in ginger &amp; 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.</li> </ul>
<b>Water Harvesting</b>			<ul style="list-style-type: none"> <li>Take measures to conserve rain water by used of mulching materials, digging of ponds, Jalkund, etc.</li> </ul>
<b>Fishery</b>			
<b>Composite Fish Culture</b>		Pre-stocking management	<ul style="list-style-type: none"> <li>As there is sufficient water in the pond due to heavy rain in previous days, farmers are advise to clean up their ponds by removing unwanted vegetation, insects, etc.</li> <li>Apply Raw Cow Dung (RCD) @ 10,000 kg/ha, 15days before stocking of fingerlings.</li> <li>Liming should be done after checking the pH, apply lime @ 2000kg/ha (in 3-4 installements at 30 days intervals) if the pH is 4.5-5.0 &amp;1200 kg/ha if the pH is 5.0-6.0 after 7 days of RCD application.</li> </ul>
		Stocking	<ul style="list-style-type: none"> <li>Release fingerlings of Catla: Rohu: Mrigal: Silver carp: Grass carp: Common carp in a ratio of 2: 2: 1.5: 2: 1: 1.5 @ 6000-7500 fingerlings/ ha into the pond.</li> </ul>
		Post-stocking management	<ul style="list-style-type: none"> <li>Feed: Provide well balanced feeds of rice polish and mustard cake in a ratio of 1:1 by wt. @ 3% of their body wt. of fishes. Chopped green vegetation should be provided for grass carp.</li> <li>Apply raw cow dung @ 1000kg/ha, Urea @ 25 kg/ha, SSP @ 30kg/ha and lime @25kg/ha regularly in every month.</li> </ul>

Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.



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

**AAS BULLETIN FOR EAST GARO HILLS  
DISTRICT**

**AMFU, AGRICULTURAL RESEARCH  
STATION**



Bulletin No:	0076/2015/2188	Period:	17/07/2015 to 21/07/2015
Issued On: 17/07/2015			

**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)
18/07	23	30	24	7	97	83	5	135
19/07	48	29	23	8	97	93	6	88
20/07	15	28	23	8	95	89	4	124
21/07	24	32	24	5	95	64	5	181
22/07	18	33	25	6	94	67	4	153

Weather summary of the preceding week	Weather forecast valid
	Moderate to rather heavy rains may occur. Next week, the minimum and maximum temperature range between 23.0-25.0 and 28.0-33.0 Deg.C. The minimum and maximum relative humidity range between 64.0-93.0 and 94.0-97.0 %. Eastern winds blow at a speed of 4.0-6.0 kmph

**General Advisory**

## Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN), GREEN GRAM (MOONG BEAN/ MOONG)	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm x 15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea

			beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
6	TURMERIC ,GINGER	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.
7	Cattle	Land Preparation	Keep the cattle shed hygienic by fumigation and white washing of walls with lime Kept the animal indoor and avoid grazing in rain. Keep the animal shed dry & clean and avoid dampness. Provide balanced feed and clean water. Due to prevailing weather condition there is chance of growth of molds (especially Aspergillus spp.) and produced aflatoxins, therefore farmers are advised to keep the animals feeds in a dry & clean place & avoid direct contact with soil/ground.
8	Pig	Land Preparation	Pig shed/ stay should keep dry and avoid dampness during rainy days. Repair the roof of pig stay to protect from rain. All newly born piglets should be vaccinated against Swine fever at the age of 2 months followed by booster and annual dose by consulting with veterinary practitioner. Provide additional feed ingredients like broken rice wheat bran, broken maize along with kitchen waste, mineral mixture (20g/day). Deworming of pig/piglets with Albendazole (5-10mg/Kg body wt.) should be done.



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

**AAS BULLETIN FOR EAST KHASI HILLS  
DISTRICT**

**AMFU, AGRICULTURAL RESEARCH  
STATION**



Bulletin No:	0076/2015/2188	Period:	17/07/2015 to 21/07/2015
Issued On: 17/07/2015			

**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 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)
18/07	21	27	23	8	99	87	4	118
19/07	66	27	22	8	97	89	4	84
20/07	29	30	23	7	91	74	2	96
21/07	32	32	24	6	93	66	4	110
22/07	13	32	24	5	93	65	3	109

Weather summary of the preceding week	Weather forecast valid
	Rather heavy rains may occur. Next week, the minimum and maximum temperature range between 22.0-24.0 and 27.0-32.0 Deg.C. The minimum and maximum relative humidity range between 65.0-89.0 and 91.0-99.0 %. Eastern winds blow at a speed of 2.0-4.0 kmph

**General Advisory**

### Crop Advisory

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN), GREEN GRAM (MOONG BEAN/ MOONG)	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm x 15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea

			beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
6	TURMERIC ,GINGER	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.
7	Orange	Planting	Planting of Khasi Mandarin may be done now. Make pit size of 1*1*1m at a spacing of 6*6m and plant the seedlings by keeping the grafted of budded at 30 cm above soil. Apply 350g Urea, 450g SSP, 200 g MOP and 100g Chloropyrifos per pit and mix thoroughly before planting.
8	Cattle	Land Preparation	Keep the cattle shed hygienic by fumigation and white washing of walls with lime Kept the animal indoor and avoid grazing in rain. Keep the animal shed dry & clean and avoid dampness. Provide balanced feed and clean water. Due to prevailing weather condition there is chance of growth of molds (especially Aspergillus spp.) and produced aflatoxins, therefore farmers are advised to keep the animals feeds in a dry & clean place & avoid direct contact with soil/ground.
9	Pig	Land Preparation	Pig shed/ stay should keep dry and avoid dampness during rainy days. Repair the roof of pig stay to protect from rain. All newly born piglets should be vaccinated against Swine fever at the age of 2 months followed by booster and annual dose by consulting with veterinary practitioner. Provide additional feed ingredients like broken rice wheat bran, broken maize along with kitchen waste, mineral mixture (20g/day). Deworming of pig/piglets with Albendazole (5-10mg/Kg body wt.) should be done.



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

**AAS BULLETIN FOR RI BHOI DISTRICT**

**AMFU, AGRICULTURAL RESEARCH  
STATION**



Bulletin No:	0076/2015/2188	Period:	17/07/2015 to 21/07/2015
Issued On: 17/07/2015			

**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)
18/07	7	29	22	8	98	80	2	139
19/07	27	28	22	8	98	89	2	121
20/07	20	30	22	7	96	73	2	168
21/07	17	29	22	5	97	74	4	167
22/07	13	32	22	4	97	65	3	164

Weather summary of the preceding week

Weather forecast valid

**General Advisory**

**Crop Advisory**

S.NO.	Crop	Stage /Condition	Variety	Agro-Met Advisory
1	BLACK GRAM (URD BEAN), GREEN	Land Preparation		Select deep loam light textured soil with ph 6.5- 7.5. Give One deep ploughing followed by 2-3 harrowing and one planking. Channels should be made for draining excess water from the field. Collect black

	GRAM (MOONG BEAN/ MOONG)			gram varieties like Pant U 19, T- 9 Azad urd 1 and green gram varieties like K 851, PDM 11, Pusa Vishal.
2	GROUNDNUT (PEA NUT/MUNG PHALLI)	Vegetative Growth		First hand weeding should be given at 30-35DAS (i.e. flower initiation stage) followed by earthing up to promote easy penetration of pegs into soil. Avoid water stagnation in the field, provide good drainage system. For management of Aphid/ Leaf miner spray phosphamidon 100 EC @ 0.5 ml/ litre of water.
3	PADDY (DHAN)	Panicle Initiation		Apply small quantity of urea @35 kg/ha as top dressing after hand weeding at 40-45 DAT. 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.
4	PADDY (DHAN)	Transplanting		Continue transplanting of 20-25days old seedling at a spacing of 20cm×15cm. Apply full dose of P (375 Kg/ha SSP) & K (67 Kg/ha MOP) and half N (87 Kg/ha Urea) + FYM @ 5t/ha at the time of transplanting.Replanting of dead hills or gap filling with seedlings of similar age should be done within 7-10 days of transplanting. Maintain a water level of 2-5 cm from transplanting to maturity and should not exceed 5 cm particularly during tillering stage. If weeds are seen farmers are advice to apply pre emergence herbicides like Butachlor (Machete) 5% granule @30Kg/ha in 3-4 cm standing water within 2-4 days after transplanting (DAT) to control grassy weeds or run Conoweeder / Japanese paddy weeder between the rows.
5	SOYBEAN (BHAT)	Vegetative Growth		Provide good channels for removing excess water to avoid water stagnation in the field. First hand weeding should be taken up at 15DAS depending on the weed population. For management of pests like hairy caterpillar, semilooper, leaf roller and flea beetle, spray dichlorvos 100 EC @ 0.5 ml/l or chlorpyrifos 20 EC @ 1 ml/lit
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