



GRAMIN KRISHI MAUSAM SEWA
ICAR Research Complex for NEH Region
Umroi Road, Umiam – 793 103 Meghalaya



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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – Ri- Bhoi
(Period 24th – 28th Sept, 2014)

Weather summery of the past four days
(19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain in the next five days. Sky may mainly clear to cloudy with a maximum and minimum temperature of 24-30°C & 20-21°C respectively. The expected relative humidity will be 97-99% (maximum) & 63-96% (minimum). Wind direction will be 114-171Degree at a speed of 2-4 kmph during the next five days.

C & RD BLOCK MAP OF MEGHALAYA

Weekly cumulative rainfall :114.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	Blast Thrips Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed. Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut	Pod formation and development stage	Late leaf spot Rust Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals. Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf. Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc. Avoid water logging as it causes rhizome rot and fungal disease development.



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		<p>Leaf Spot</p> <p>Rhizome rot (ginger)</p>	<ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water. Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		<ul style="list-style-type: none"> Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now.. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing. Seeds can be sown either by broadcasting or in rows.



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			<p>Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm.</p> <ul style="list-style-type: none"> Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips Mites	<ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
Fishery	All stages		<ul style="list-style-type: none"> Due to continuous heavy rain in the past few days and possibility of rain in the coming days, farmers are advised



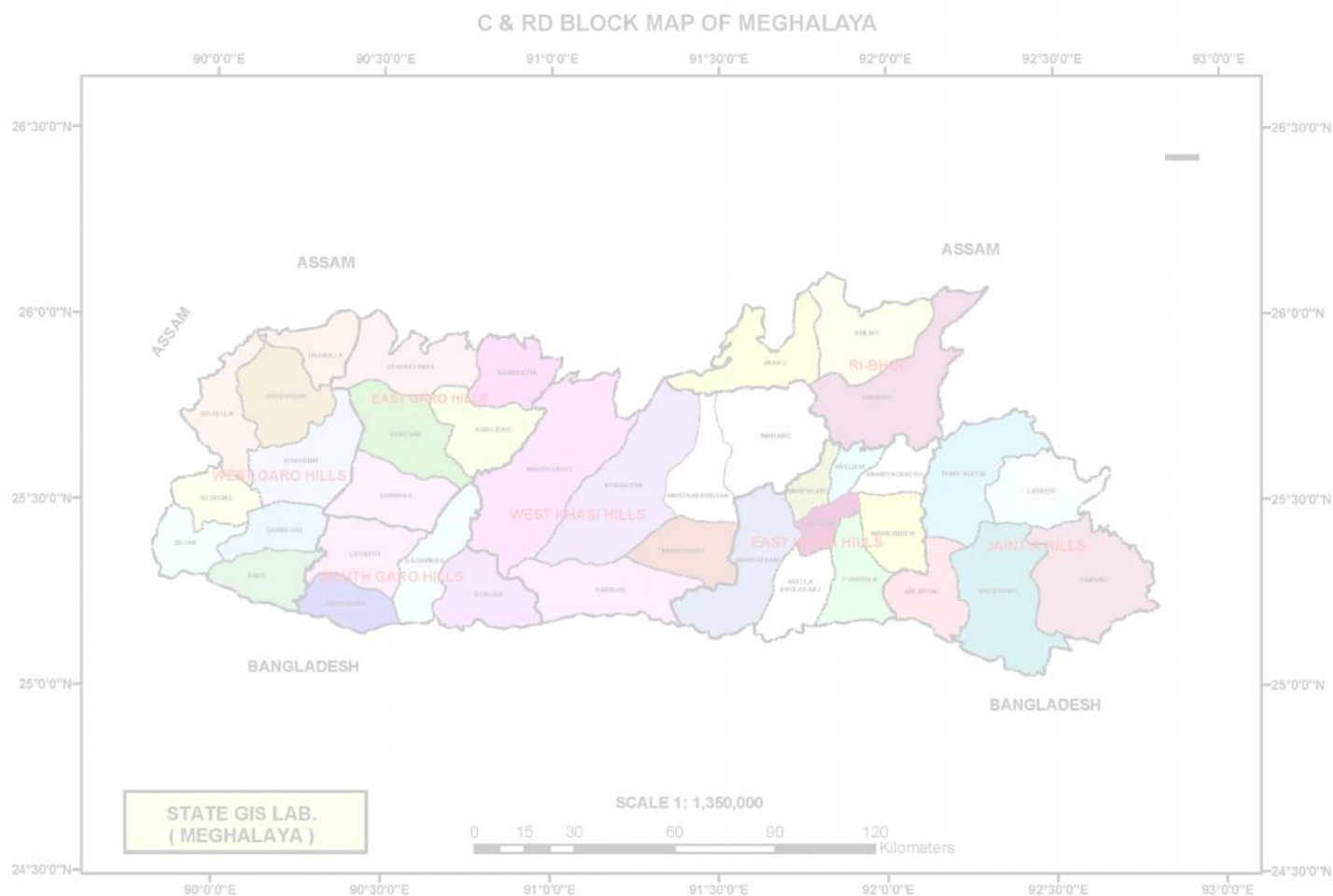
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			to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – South Garo Hills (Period 24th – 28th Sept, 2014)

Weather summery of the past four days (19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to rather heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 29-33°C & 23-24°C respectively. The expected relative humidity will be 91-98% (maximum) & 60-86% (minimum). Wind direction will be 101-119Degree at a speed of 3-6 kmph during the next five days.

Weekly cumulative rainfall :144.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	Blast	<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.
		Thrips	<ul style="list-style-type: none"> Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
		Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut	Pod formation and development satge	Late leaf spot	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals.
		Rust	<ul style="list-style-type: none"> Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
		Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc.



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			<ul style="list-style-type: none"> Avoid water logging as it causes rhizome rot and fungal disease development.
		Leaf Spot	<ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
		Rhizome rot (ginger)	<ul style="list-style-type: none"> Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		<ul style="list-style-type: none"> Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now.. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha.



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			<ul style="list-style-type: none"> Seeds should be soaked overnight before sowing. Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips Mites	<ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.



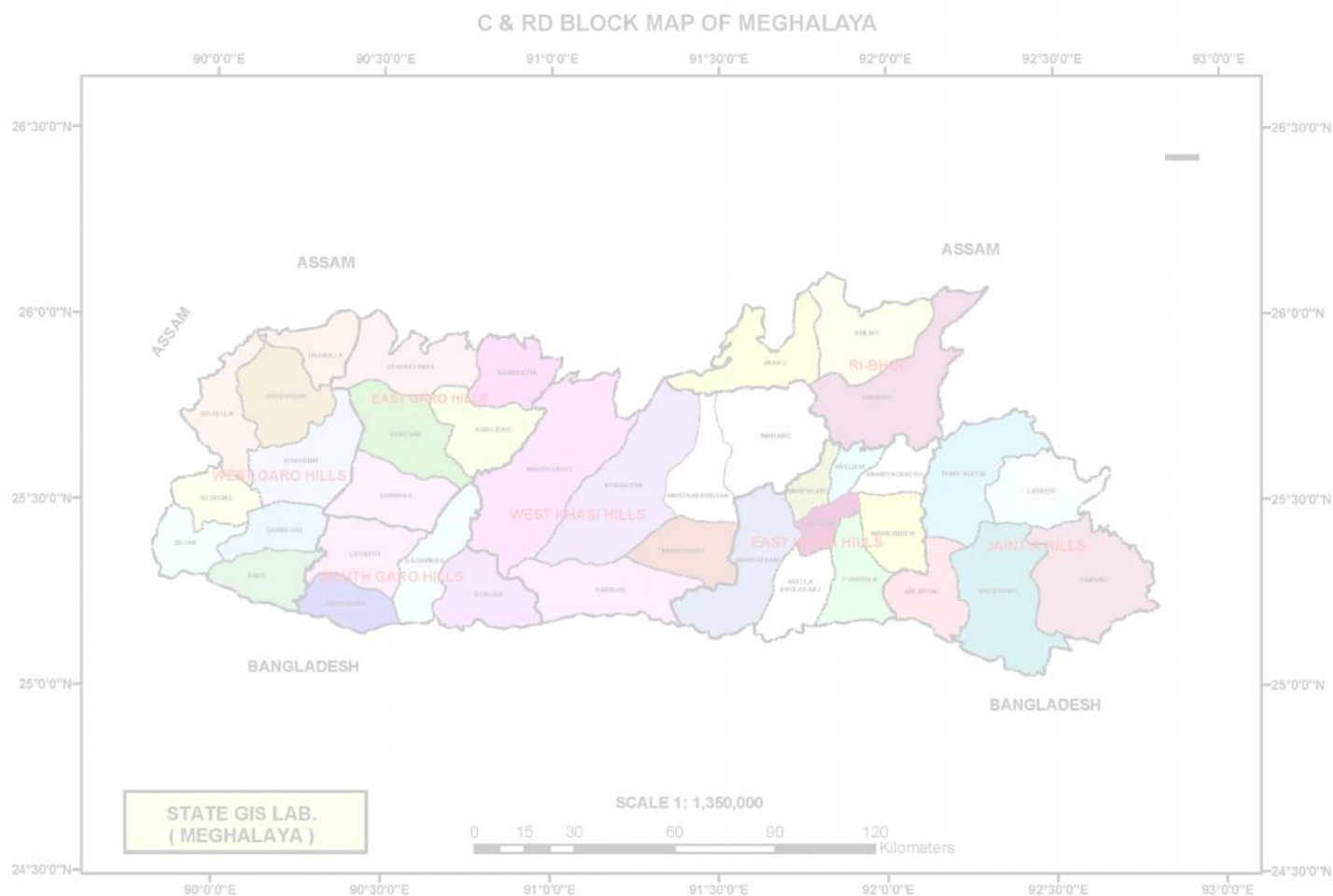
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





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Dated: 23/09/2014

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Weather summary of the past four days (19th to 22nd Sept, 2014)

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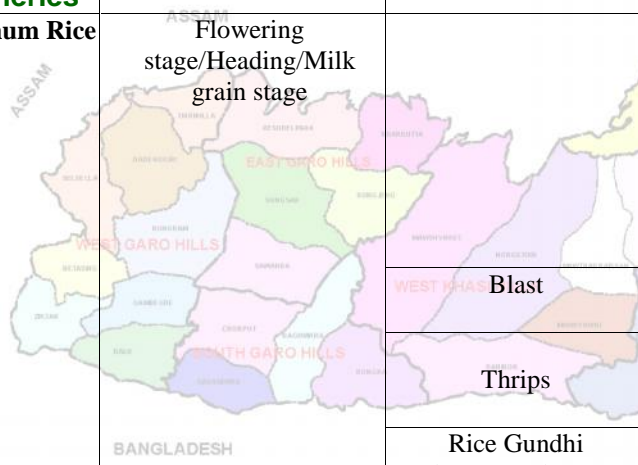

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to rather heavy rain in the next five days. Sky may be clear sky to cloudy with a maximum and minimum temperature of 28-33°C & 22-23°C respectively. The expected relative humidity will be 93-99% (maximum) & 59-80% (minimum). Wind direction will be 87-141Degree at a speed of 4-6 kmph during the next five days.

C & RD BLOCK MAP OF ME

Weekly cumulative rainfall :194.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
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		Thrips	<ul style="list-style-type: none"> Spray Mencozeb @ 2g/litre or Carbendazime @ 1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
		Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @ 0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut 	Pod formation and development stage	Late leaf spot	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals.
		Rust	<ul style="list-style-type: none"> Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3%, should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
Ginger/ Turmeric	Rhizome initiation stage	Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
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		<p>Leaf Spot</p> <ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water. <p>Rhizome rot (ginger)</p> <ul style="list-style-type: none"> Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
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Pea	Land preparation to sowing	<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now.. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 		
Cauliflower	Nursery preparation to transplanting	<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting	<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting	<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing	<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha.



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			<ul style="list-style-type: none"> Seeds should be soaked overnight before sowing. Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips Mites	<ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.



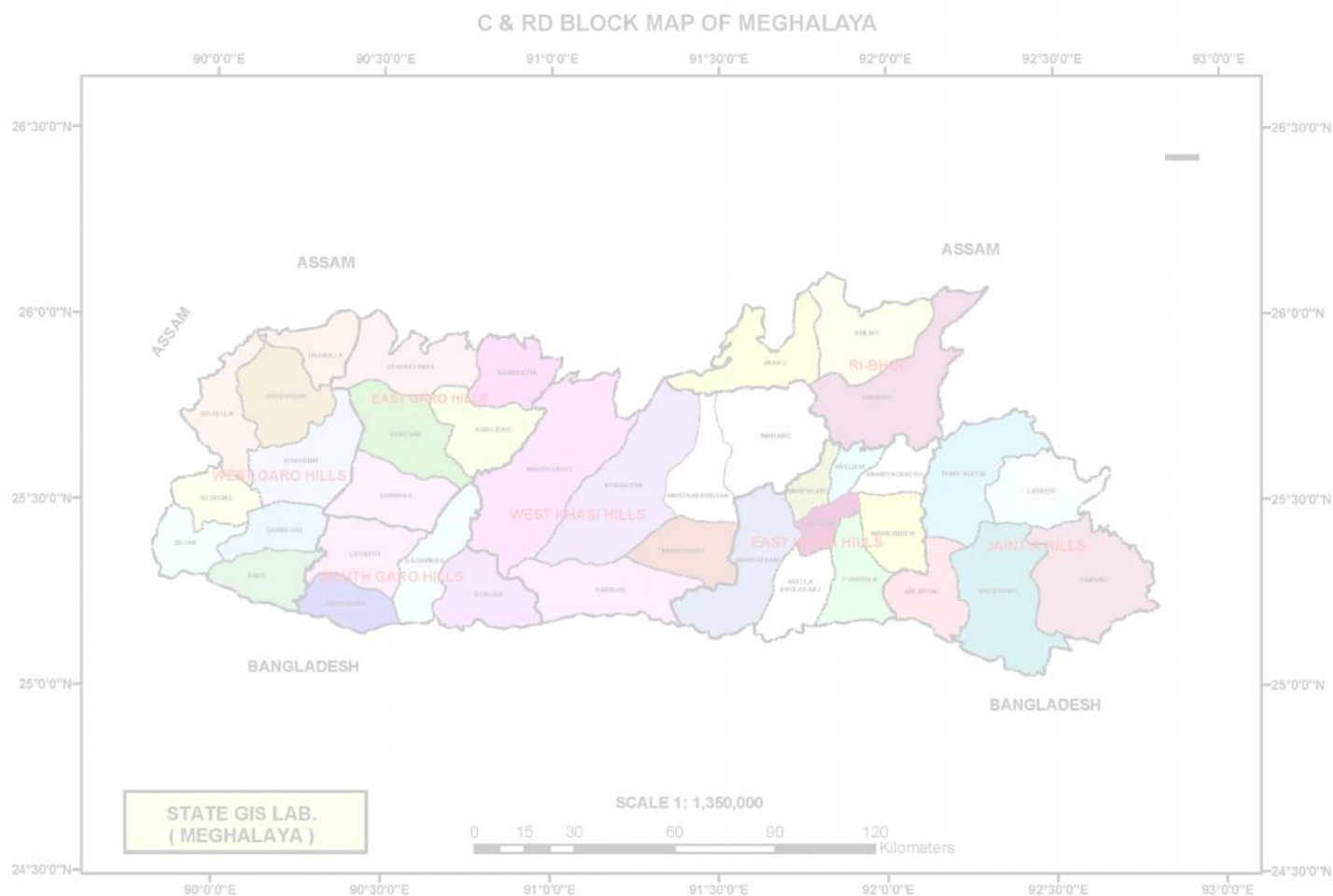
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Fishery	All stages	<ul style="list-style-type: none">Due to continuous heavy rain in the past few days and possibility of rain in the coming days, farmers are advised to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – West Khasi Hills
(Period 24th – 28th Sept, 2014)

Weather summery of the past four days
(19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 20-22°C & 17-18°C respectively. The expected relative humidity will be 91-98% (maximum) & 58-92% (minimum). Wind direction will be 109-125Degree at a speed of 2-5 kmph during the next five days.

C & RD BLOCK MAP OF MEGHALAYA

Weekly cumulative rainfall :183.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	Blast	<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.
		Thrips	<ul style="list-style-type: none"> Spray Mencozeb @ 2g/litre or Carbendazime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
		Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut	Pod formation and development stage	Late leaf spot	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals from the appearance of dark brown spot.
		Rust	<ul style="list-style-type: none"> Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
Ginger/ Turmeric	Rhizome initiation stage	Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
			<ul style="list-style-type: none"> Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc. Avoid water logging as it causes rhizome rot and fungal



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			disease development.
		Leaf Spot	<ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
		Rhizome rot (ginger)	<ul style="list-style-type: none"> Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		<ul style="list-style-type: none"> Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now.. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing.



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			<ul style="list-style-type: none"> Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	<p>Thrips</p> <p>Mites</p>	<ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
Fishery	All stages		<ul style="list-style-type: none"> Due to continuous heavy rain in the past few days and



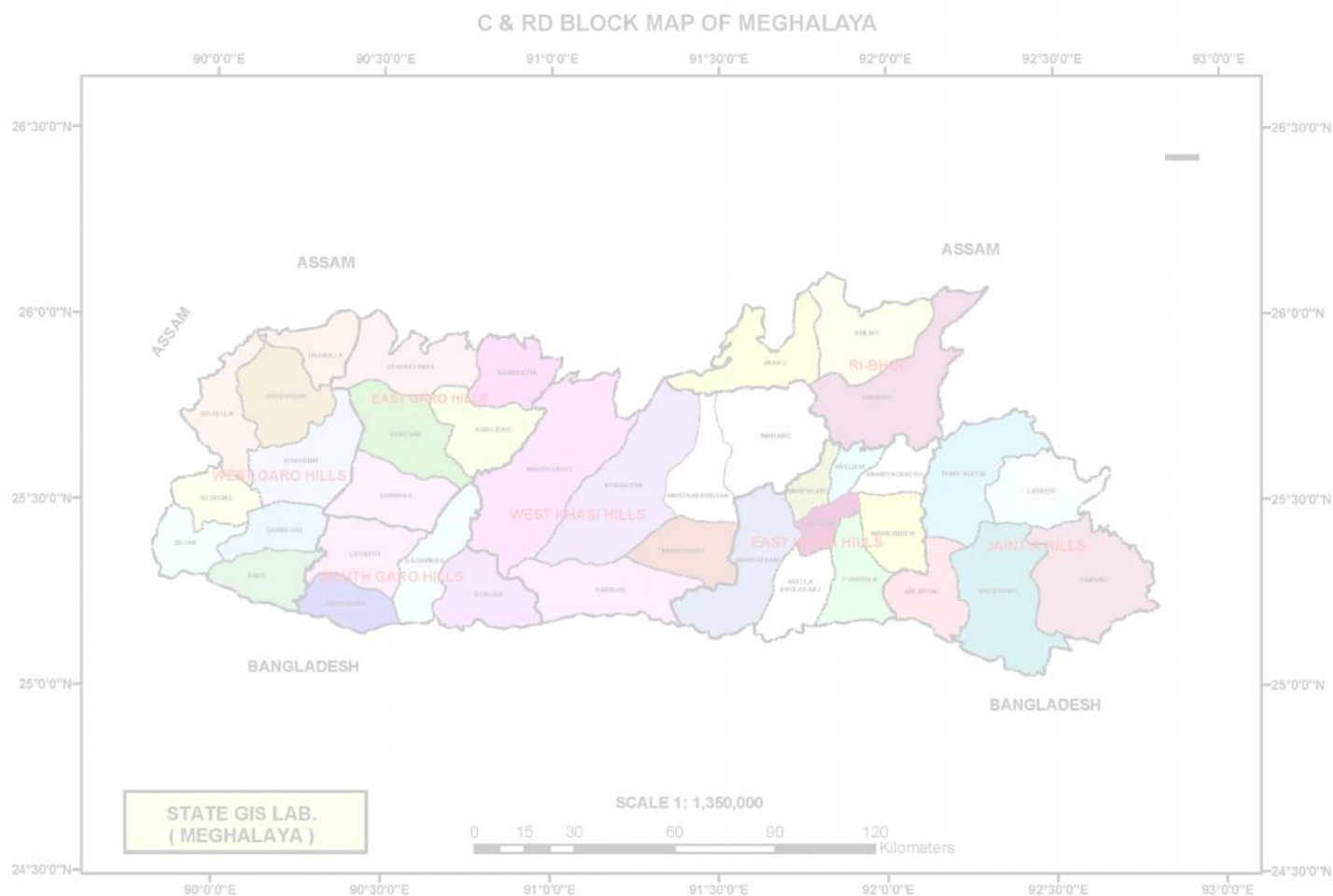
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			possibility of rain in the coming days, farmers are advised to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.





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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – East Garo Hills
(Period 24th – 28th Sept, 2014)

Weather summery of the past four days
(19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of light rain to rather heavy rain in the next five days. Sky may be clear sky to partly cloudy with a maximum and minimum temperature of 29-33°C & 22-23°C respectively. The expected relative humidity will be 74-80% (maximum) & 48-53% (minimum). Wind direction will be 156-178Degree at a speed of 5-7 kmph during the next five days.

C & RD BLOCK MAP OF MEGHALAYA

Weekly cumulative rainfall :175.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage		<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.
		Blast	<ul style="list-style-type: none"> Spray Mencozeb @ 2g/litre or Carbendezime @1g/l if blast spots are seen after the current spells of rain.
		Thrips	<ul style="list-style-type: none"> Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
		Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut	Pod formation and development stage	Late leaf spot	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals.
		Rust	<ul style="list-style-type: none"> Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
		Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
Ginger/ Turmeric	Rhizome initiation stage		<ul style="list-style-type: none"> Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; For turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc. Avoid water logging as it causes rhizome rot and fungal



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			disease development.
		Leaf Spot	<ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
		Rhizome rot (ginger)	<ul style="list-style-type: none"> Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		<ul style="list-style-type: none"> Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes



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			<ul style="list-style-type: none"> Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing. Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting		<p>Thrips</p> <p>Mites</p> <ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with



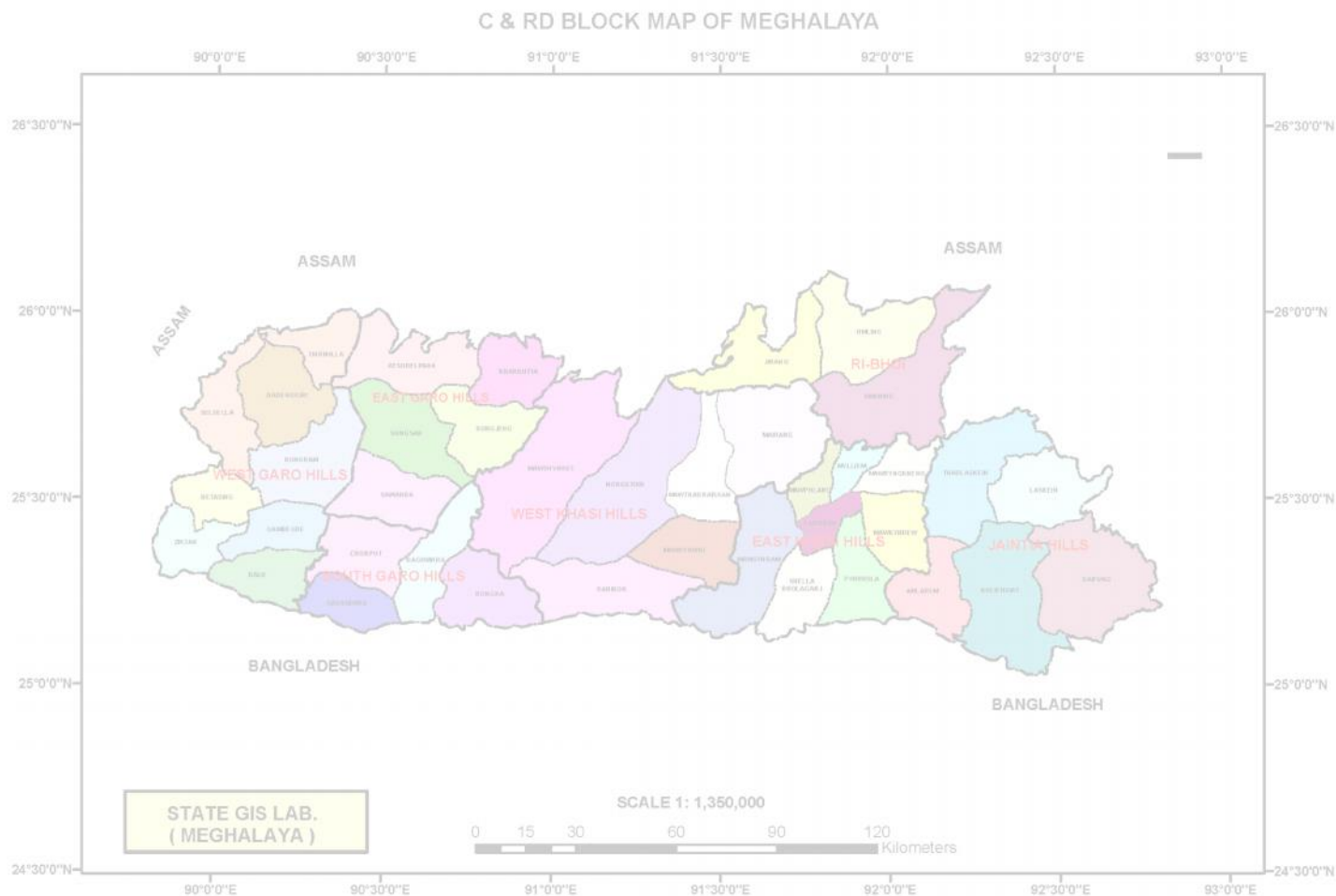
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			FMD vaccine once in a year.
Fishery	All stages		<ul style="list-style-type: none">Due to continuous heavy rain in the past few days and possibility of rain in the coming days, farmers are advised to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.

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





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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – East Khasi Hills
(Period 24th – 28th Sept, 2014)

Weather summery of the past four days
(19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of rather heavy rain to very very heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 20-22°C & 17°C respectively. The expected relative humidity will be 94-99% (maximum) & 59-95% (minimum). Wind direction will be 121-153Degree at a speed of 2-3 kmph during the next five days.

C & RD BLOCK MAP OF MEGHALAYA

Weekly cumulative rainfall :443.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	Blast Thrips Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of heavy rain. Spray Mencozeb @ 2g/litre or Carbendazime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed. Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Potato	Land preparation to planting		<ul style="list-style-type: none"> Postpone sowing of potato. Apply 100q/ha FYM in furrows before planting Plant tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini. Use sprouted seed tubers of size 40-50g. Make furrows of 50cm distance between the rows and plant the sprouted seeds in the furrows maintaining a distance of 20-25cm between plant to plant. Apply N: P: K- 75:120:60 kg/ha at the time of sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Postpone of sowing of pea Grow varieties like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna. Seed rate of 60 kg is required for 1 ha and maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Recommended dose of fertilizer, NPK - 20:60:40 kg/ha



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			(44kg Urea, 375 kg SSP & 67 kg MOP). Apply all doses of fertilizers at the time of sowing.
Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli) <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> • Recommended variety: Meghalaya Local • Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. • Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> • Recommended variety: H-139, Pride of India • Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. • Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> • Recommended variety: Puspa, Aiswarya • Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. • Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> • Recommended variety: New Karoda, Nantes • Seed rate of 8-10g is required for transplanting of 1 ha. • Seeds should be soaked overnight before sowing. • Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. • Keep the soil moist by frequent light irrigation for proper growth of roots. • Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> • Recommended variety: Local genotype • Seed rate of 8-10g is required for transplanting of 1 ha. • Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. • Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. • Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal.



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French Bean	Sowing		<ul style="list-style-type: none"> • Give irrigate immediately after sowing. • After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. • Recommended variety: Naga Local • Seed rate of 20-25kg is required for 1 ha. • Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. • Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips Mites	<ul style="list-style-type: none"> • If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/10litre of water. • Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> • Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. • As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. • Regularly inspect the drooping of the poultry birds for any diseases symptom. • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> • Avoid water stagnation around the shed as it may build up mosquito breeding site. • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. • In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
Fishery	All stages		<ul style="list-style-type: none"> • Due to continuous heavy rain in the past few days and possibility of heavy rain in the coming days, farmers are advised to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.

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



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RC (AE)/30/2011/ Bulletin/September'2014/51

Dated: 23/09/2014

Agro Advisory Bulletin – Jaintia Hills
(Period 24th – 28th Sept, 2014)

Weather summery of the past four days
(19th to 22nd Sept, 2014)

Sky was generally cloudy to cloudy with heavy rainfall of **110.1mm**. Maximum temperatures ranged between 22.2-30.1°C and minimum ranged between 18.3-20.3°C. Mean relative humidity was 88-93% in morning and 77-96% in evening. Wind speed ranged between 1.1-3.4 kmph.

Weather forecast valid up to 28th Sept, 2014

There is possibility of moderate rain to heavy rain in the next five days. Sky may be mainly clear to cloudy with a maximum and minimum temperature of 24-31°C & 19-21°C respectively. The expected relative humidity will be 95-99% (maximum) & 54-95% (minimum). Wind direction will be 115-186Degree at a speed of 2 kmph during the next five days.

C & RD BLOCK MAP OF MEGHALAYA

Weekly cumulative rainfall :242.0mm

Agro meteorological Advisories for coming 5 days

Main Crop/ Animal /Fisheries	Stage	Pest/Diseases	Agricultural Advisories
Kharif Rice/Jhum Rice	Flowering stage/Heading/Milk grain stage	Blast	<ul style="list-style-type: none"> Repair bunds and keep free from weeds Maintained a water level of 3-5 cm in the field and drain out excess water due to rains. 2nd top dressing of urea (44Kg/ha) should be done at Panicle stage after 2nd hand weeding or using cono-weeder. Postpone fertilizer application and plant protection measures for few days as there is possibility of rain.
		Thrips	<ul style="list-style-type: none"> Spray Mencozeb @ 2g/litre or Carbendazime @1g/l if blast spots are seen after the current spells of rain. Farmers should keep vigilance against the attack of thrips and spray insecticide like Chloropyriphos @ 2ml/lit of water if moderate to high intensity is observed.
		Rice Gundhi bug/Stem borer	<ul style="list-style-type: none"> Spray Malathion 5% dust @ 6.25kg/ha for Rice Gandhi bug and Chloropyriphos @0.02% or Monocrotophos @ 0.04% for stem borer.
Groundnut	Pod formation and development stage	Late leaf spot	<ul style="list-style-type: none"> Weather is congenial for development of late leaf spot. Spray carbendazim (0.05%) + mancozeb (0.2%) at 2- 3 weeks intervals.
		Rust	<ul style="list-style-type: none"> Foliar application of aqueous neem leaf extract (2-5%) or mancozeb @ 0.3% should be done if chlorotic spots are seen on the upper part and orange colored pustules on the lower part of the leaf.
	Rhizome initiation stage	Groundnut leaf miner/ Leaf folder	<ul style="list-style-type: none"> Foliar sprays with acephate 1 g/l or chlorpyriphos 2.5 ml/l or monocrotophos 1.6 ml/L.
			<ul style="list-style-type: none"> Give one hand weeding followed by fertilizer application, earthing up and mulching. Apply 81.4 kg/ha urea and 41.75 kg/ha MOP for ginger; for turmeric apply 65.1 kg/ha urea and 100.2 kg/ha MOP at 90 DAS. Mulching can be done with locally available weed biomass, maize stalk, etc. Avoid water logging as it causes rhizome rot and fungal
Ginger/ Turmeric			



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			disease development.
		Leaf Spot	<ul style="list-style-type: none"> To prevent Leaf Spot disease, apply Bordeaux mixture (5:5:50) after 4 – 5 weeks of sowing or Captan @ 1.5 g/l of water.
		Rhizome rot (ginger)	<ul style="list-style-type: none"> Spray/ drench 1% Bordeaux mixture or Dithane M-45 (2.5g/l) to prevent rhizome rot.
Potato	Land preparation		<ul style="list-style-type: none"> Undertake land preparation for sowing of potato and wait for the rain to cease for sowing. Apply 100q/ha FYM in furrows before planting. Collect tuber seeds of HYVs like Kufri Joyti, Kufri Megha, Kufri Giriraj, Kufri Girdhari, Kufri Himsona, Kufri Himalini and keep ready for sowing.
Pea	Land preparation to sowing		<ul style="list-style-type: none"> Undertake land preparation for sowing of Pea. Sowing of HYV like Arkel (for vegetables), TRC P8, TRC P9, Prakash, Rachna can be started now.. Required seed rate for 1 ha is 60 kg & maintain a spacing of 20-25 cm between rows & 3-5 cm plant to plant. Apply 44kg Urea, 375 kg SSP & 67 kg MOP (NPK-20:60:40 kg/ha) at the time of sowing.
<p>Postpone sowing of nursery for few days and provide protection to the prepared nursery bed from rain</p> <p>Nursery Bed Preparation for vegetables (Cabbage, Cauliflower, Broccoli)</p> <ul style="list-style-type: none"> ➤ Prepare raised nursery bed of height of 15 cm, 1m width and length of convenient length. ➤ Drench the nursery bed with Dithane M-45 @ 3g/m² to prevent the incidence of damping off. ➤ Apply FYM @ 4-6 kg/m² and mix well with the soil and leveled the bed. ➤ Make rows of 5 cm distance along the width of the bed with the help of bamboo stick. ➤ Sow the seeds at 1-2 cm deep in the line and covered with sieved FYM, sand and soil mixture. ➤ Covered the bed with dry grass/paddy straw or polythene to induce early germination & removed the coverage as soon as sprouts come out. ➤ Irrigate should be given daily. ➤ Transplant the seedlings 3-6 weeks old at proper spacing. ➤ Proper channels for draining excess water to avoid water logging. 			
Cauliflower	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Meghalaya Local Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 60 cm row to row & 45cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) at the time of transplanting
Cabbage	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: H-139, Pride of India Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45 cm row to row & 30cm plant to plant. Apply half dose of N (130.2 kg/ha urea) & K (50 kg/ha MOP) & full dose of P (500 kg/ha SSP) & at the time of transplanting.
Broccoli	Nursery preparation to transplanting		<ul style="list-style-type: none"> Recommended variety: Puspa, Aiswarya Seed rate of 400-500g is required for transplanting of 1 ha. Transplant 3- 5 weeks old seedlings at a spacing of 45cm row to row & 30cm plant to plant. Apply half dose of N (30 kg/ha urea), full dose of P (500 kg/ha SSP) and K (100 kg/ha MOP) at the time of transplanting.
Carrot	Sowing		<ul style="list-style-type: none"> Recommended variety: New Karoda, Nantes Seed rate of 8-10g is required for transplanting of 1 ha. Seeds should be soaked overnight before sowing.



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			<ul style="list-style-type: none"> Seeds can be sown either by broadcasting or in rows. Rows should be made at distance of 25cm apart and sow the seeds in the rows & later do thinning maintaining plant to plant distance of 5 cm. Keep the soil moist by frequent light irrigation for proper growth of roots. Apply half N (108.5 kg/ha urea) and full P (375 kg/ha SSP) and K (100.2 kg/ha MOP) as basal dose at the time of final land preparation.
Radish	Sowing		<ul style="list-style-type: none"> Recommended variety: Local genotype Seed rate of 8-10g is required for transplanting of 1 ha. Prepare ridges of 20 cm at 30-45 cm distance & sow the seeds on ridges. Thinning should be done maintaining plant to plant distance of 7-10 cm in a row soon after they are established. Apply half dose of N (108.5 kg/ha urea), full dose of P (375 kg/ha SSP) & K (100kg/ha MOP) as basal. Give irrigate immediately after sowing.
French Bean	Sowing		<ul style="list-style-type: none"> After harvesting the maize crop, take up French bean and utilize the stalk of maize for climbing. Recommended variety: Naga Local Seed rate of 20-25kg is required for 1 ha. Maintained a spacing of 45 cm row to row & 15-20 cm plant to plant. Fertilizer dose N: P: K - 60:60:40 kg/ha. Apply half dose of N (65kg/ha urea), full dose of P (375kg/ha SSP) & K (66.8kg/ha) at the time of sowing.
Chilli	Flowering/ Fruiting	Thrips Mites	<ul style="list-style-type: none"> If the leave develop crinkles and curl upwards, then apply Carbofuran 3% G @ 33 kg /ha or Phorate 10 % G @ 10 kg/ha or spray Imidacloprid 17.8 % SL @ 3.0 ml/ 10litre of water. Spray Ethion @ 1.5ml or Rogor @ 2ml/L of water.
Animal Sciences			
Poultry	All stages		<ul style="list-style-type: none"> Due to continuous rainfall and increased humidity in the last few days, moisture has build up in the poultry shed which may be favorable for development of diseases. To avoid this change the litter and provide clean and fresh water and good ventilation system should be provided in the shed. As the night temperature has dropped, poultry birds (day old to 25 days old) should be provided with artificial heating through lightning of electric bulb to protect them from low temperature. Regularly inspect the drooping of the poultry birds for any diseases symptom. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis.
Piggery	All stages		<ul style="list-style-type: none"> Avoid water stagnation around the shed as it may build up mosquito breeding site. Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In epidemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year.
Fishery	All stages		<ul style="list-style-type: none"> Due to continuous heavy rain in the past few days and



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			possibility of rain in the coming days, farmers are advised to check the water level of their ponds and take up necessary measures like releasing of excess water by netting, bunding around the pond to avoid overflow of water and fish from pond.
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Suggestion: Contact nearby State Agril. Staff or KVK staff for necessary help and suggestion.

