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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – WEST JAINTIA HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-13°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-5 Okta, Maximum RH: 93-99%, Minimum RH: 46-74%, Wind speed: 3-4 Kmph, Wind direction: Northeast-South.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water.⁸ RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|---|--------------------------|--|--|
| Pea 26'0'0''N- | A Vegetative stage | mar and | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation. |
| Root Crop (Radish, carrot) Cole crops (Cabbage, | Vegetative | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. Maintain proper soil moisture in the the field by |
| Cauliflower, Broccoli) | | Acession and a second s | Maintain proper son molsture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| 25 Ginger/Turmeric | Maturity/Harvesti ng | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple STATE GIS I (MEGHALA 24"30'0"N- 90"0"0"E | Harvesting (NovApril) | 15 30 60 | Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested |





| | Sciences Protect Animals | | Fruit drop/ Fruit fly posure to cold weather animal houses & if req | |
|-------------|--|---|--|--|
| Poultry | | All stages | | • Provide artificial heating to poultry hirds (day old to |
| 28°30'0'N- | 90°0°0°E | ASSAM | 91*0'0''E 91*3 | Provide intrivial nearing to poundy ones (ad) one to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every |
| 36°0'0''N | Sector Contraction of the sector of the sect | TRADELA DESIRELINDA DESIRE BASTOSARO HILS SOUGAN ROCHILLS | Coccidiosis | day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. |
| 25°30'0''N- | Constant of the second of the | ARABIA BORNESS BACHBRAN BACHBA | (Symptoms: blood/mucus in feaces) Ranikhet disease | Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| Piggery | BAN STATE GIS L | | SCALE 1: 1,34 | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) |
| 21/20/01/01 | (MEGHALA) | (A) | Deworming | repeat after 14 days. |
| 24°30'0''N- | 90°0'0''E | 90°30'0''E | 91*0'0"E 91*3 Skin infection | Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| | | | (Scabies) | • Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| Cattle & | z Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck |
| | | | Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the |



GRAMIN KRISHI MAUSAM SEWA ICAR Research Complex for NEH Region



Umroi Road, Umiam – 793 103 Meghalaya 2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: <u>iaasbarapani@yahoo.in</u>

| Fishow | | Deworming | entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 10 mg/kg body weight once and repeat after 21 day Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
|--|-------------------------|---|--|
| Fishery | aintain of proper dyke | | |
| Common Carp | Brooders | | Pond preparation: |
| (All varieties; Amur, Local common carp and Koi carps) | (Breeding season) | | Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management |
| 90°0'0''E | 90°30'0''E | & RD BLOCK MAP O | Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine |
| 24°30'0''N- | | | them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be ^{28°30} provided to the brooders. Health management: |
| | ASSAM | | If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts. |
| Major carps, Minor carps and murrels in particular | All Stages | Saprolegnia (Cotton wool disease) | Prophylactic measure: Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: |
| 22°30'0''N- | CORE CONSTRAINTS | Epizootic Ulcerative Syndrome (EUS) | Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |
| Suggestion: Contact nearb | y State Agril. Staff or | r KVK staff for necess | ary help and suggestion. |
| 25°0'0''N- | GLADESH | | BANGLADESH |
| STATE GIS L (MEGHALA) | (A) 0 | SCALE 1: 1,34 | 90 120 Kilometers |
| 24°30'0''N- 90°0'0''E | 90°30'0''E | 91°0'0''E 91°3 | -24*30 '0''E 92*0'0''E 93*0'0''E |





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

Agro Advisory Bulletin – WEST KHASI HILLS (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 2.0mm for the next five days. Maximum Temp: 18-21°C, Minimum Temp: 9-11°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-7 Okta, Maximum RH: 79-98%, Minimum RH: 39-79%, Wind speed: 3-4 Kmph, Wind direction: Southeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine.OF MEGHALAYA

90°0'0''E 90°30'0''E 91°0'0''E 91°30'0''E

| Agro | o meteorologi | cal Advisor | ies for coming 5 days |
|---|---------------------|------------------------------|---|
| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
| Pea | Vegetative stage | | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative | Jan Jan | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Vegetative wes | TINHASIHILLS | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric BANG | Maturity/Harvesting | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. LADESH |
| Pineapple STATE GIS LA (MEGHALAY | | SCALE 1: 1,350,000 | Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully |
| 90'0'N- 90'0'0'E | 90°30'0''E 91' | 0 [°] 0"E 91°30'0"E | mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. |
| Khasi Mandarin | Fruit Maturity/ | | Earthing up after harvestedManagement of fruit drop: Spraying with 2,4-D or |





| | | | Harvesting | | | GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) |
|------|-----------|---|----------------------------|--------------------------|---|--|
| | | | | Fruit drop/ | | or spraying of Planofix @ 1ml/5 litres of water |
| | | | | Fruit fly | n | ninimise the fruit drop. |
| | | | | - | • (| Collect & discard of fallen fruits to avoid attraction |
| | | | | | | of fruit fly. |
| | | | | | | Harvests along with stalk. |
| | | | | | | |
| | | | | | | To prevent bird damage of Khasi Mandarin fruit use |
| | | | | | | bird netting or used traditional methods of bird |
| | | | | | С | control. |
| | Guava | | | | • [| Do mulching by covering the tree basin with dry |
| | | | | | S | traws or black polycthylene sheet or with organic |
| | | | | | n | naterials. |
| ĺ | Animal | Sciences | | | | |
| | • | Protect Animals | s/Birds from direct expos | ure to cold weather. | CUA | |
| | • | | up of insect nests in anin | | | |
| | Poultry | | All stages | nui nouses & n'require | | Provide artificial heating to poultry birds (day old |
| | 1 outri y | | All stages | | • | |
| 26° | 30'0''N- | | | | | to 25 days old) through lightning of electric bulb |
| | | | | | | to protect them from low temperature during |
| | | | | | | night time. |
| | | | | | ٠ | Keep the poultry house well ventilated during day |
| | | | | | | time. |
| | | | ASSAM | | • | Provide vitamin B complex @ 7ml/litre in |
| | | | | | N | drinking water daily in broiler for healthy growth. |
| 26 | °0'0''N- | 14 | \sim | m | | Litter should be change periodically and provide |
| | | Star Star | - Daram | E. C | 1 | clean drinking water and changed the water every |
| | | * 5/ | TRUMALA RESUBELIMAN | The second | RAN G | day. |
| | | 5 COADEN | EN FASTER O HILLS | pang Kinger | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Diseased and dead birds should be immediately |
| | | C SELSE LA | | 2 20 1 | - 4 | removed. |
| | | 2 de | Soucean Soucean | | ARABG | and start and st |
| | | WEST GAR | D HILLS | sevinai / | ->/ | Regularly inspect the dropings of the poultry |
| 25° | 30'0''N- | C BETASING | EAMASEA | MONOSTON MUNTRADITASTIAN | Conversion of | birds for any diseases symptom. |
| | | 1 m S GAME | " J WES | Coccidiosis | | Provide plenty of fresh and clean drinking water. |
| | | TROAK S | CHOKOT LACHMARA | (Symptoms: | | Provide coccidiostatic like Amprolium @ 25-65 |
| | | DALH | CONTH GAROHILLS | blood/mucus in | SHELL'A BHOLAGARD | mg/kg feed once a day as a preventive measure |
| | | | Centricity Controls | feaces) | 1 | against coccidiosis. |
| | | | | Ranikhet disease | -2- | Vaccinate the poultry birds with F1/ Lasota |
| | | BANG | LADESH | | | vaccine (1 drop) at the age of 4-7 days old and 35 |
| 25 | °0'0''N | 100 mm - 100 | | | | days old through eye and nostril. |
| | Piggery | • | All stages | | • | Vaccinate all newly born piglets against swine |
| | - 15501 y | | in suges | | | fever at the age of 3 months followed by annual |
| | | | | | | booster dose. |
| | 1 | STATE GIS LA | B | SCALE 1: 1,350,000 | | |
| | | (MEGHALAY | | 30 60 | 90 | In endemic areas, vaccinate 6 months old pigs with |
| 0.40 | | (mastrianti | | | | FMD vaccine once in a year. |
| 24° | 30'0''N- | 90°0'0''E | 90°30'0''E 91' | 0'0''E 91'30'0''E | • | Iron supplementation in piglet to prevent from |
| | | | | Deworming | | piglet anaemia during 1 st week of age (0.5-1 ml |
| | | | | | | IM/SC) repeat after 14 days. |
| | | | | | ٠ | Deworm your pigs by albendazole @ 5-10 mg/kg |
| | | | | | | body weight once and repeat after 21 days. |
| | | | | Skin infection | • | Provide Ivermectin (Injection) @ 10mg/33kg body |
| | | | | (Scabies) | | wt. |
| ľ | Cattle & | & Buffaloes | 6-9 months calves | Brucellosis | • | Vaccinate 6-9 months old Heifer (Female) with |
| | | | | | | Brucella abortus cotton strain-19 @ 5ml |
| | | | | | | subcutaneous on the neck |
| | | | | Foot & Mouth | • | Undertake regular immunization of cattle & |
| | | | | Disease, | | buffaloes against Foot & Mouth disease, |
| | | | | HaemorrhagicSepti | | |
| | | | | | | Haemorrhagic septicaemia & Black Quarter. |
| | | | | caemia, Black | • | To prevent FMD spread spray 4% sodium |





| | | Quarter | carbonate solution (400 gm Na ₂ Co ₃ in 10 litres of water) or lime/ bleaching powder should be sprea every day atleast once around the farm premise a at the entry/exit atleast for 10 days. |
|---------------------------|-----------------------------|----------------------|--|
| | | Deworming | • Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 2 days. Do not give to pregnant & new bor animals. |
| | | | • Vitamin and mixed supplements. |
| Fishery | | | |
| | aintain of proper dyke. | 1 | |
| Common Carp | Brooders | | Pond preparation: |
| (All varieties; Amur, | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| Local common carp | C & R | D BLOCK MAP OF ME | Maintain the water quality by proper manuring and |
| and Koi carps) 90°0'0'E | 90°30'0''E 91 | '0'0"E 91°30'0"E | water volume. 92°30'0''E 93°0'0''E |
| | | | Brood stock Management |
| | | | Select mature and big parent stock for breeding |
| 30'0''N- | | | activity. |
| | | | If possible separate the male and female brooders in |
| | | | different ponds for the month of December and |
| | | | combine them at January for better response. |
| | ASSAM | | Feeding Management |
| | AUGAIN | | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be |
| °0'0''N— — Ж | ~ | m | provided to the brooders. |
| TO'O'N- | - Drawn | 6 0 | Health management: |
| * 5 | TRANSLA RESUBELIMEN REALITY | Tom me | If any sick or infected fish is observed, then it must be |
| S CONTRACT | EAST GARO HILLS | har Winter | immediately removed and examined for further |
| Carsers 2 | RONG RING | | treatment by consulting subject experts. |
| Major carps, Minor | All Stages | Saprolegnia | Prophylactic measure: |
| carps and murrels in | D HILLS | (Cotton wool | Maintain the pH above 8. |
| particular | wes | disease) | Treatment: |
| DICZAR CANNIE | | | Salt bath for 2 mins @ 2g/Liter water and followed by |
| | CHOKITH GARO HILLS | Common | 5ppm KMnO ₄ thrice a week for 6 weeks. |
| | CERTINATIA BONCHA | HAMROR AND | INCLOSARI PRINCIPA ANALANCIA MILLINIAT |
| | - Ala | d | Prophylactic measure: |
| | | Epizootic | Maintain the pH above 8. |
| "0'0''N- | LADESH | Ulcerative | Treatment: |
| | | Syndrome (EUS) | Apply CIFAX @ 1 litre/ha water spread area |
| | | • | FISH-X @ 1 Litre/ha |
| Suggestion: Contact ne | arby State Agril. Staff | or KVK staff for nec | essary help and suggestion. |
| | | SCALE 1: 1,350,000 | |
| STATE GIS LA (MEGHALAY | | | 90 120 |
| (WEGHALAT | | | Kilometers |
| 30'0''N- | | | -24*30'0 |



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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – East Garo Hills</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 1.0 mm for the next five days. Maximum Temp: 21-22° C, Minimum Temp: 9-11° C, Cloud cover: sky will be partly cloudy to mainly cloudy i.e. 3-7 Okta, Maximum RH: 85-95%, Minimum RH: 55-61%, Wind speed: 0-2 Kmph, Wind direction: Southwest-Northwest.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

C & RD BLOCK MAP OF MEGHALAYA

| | Igro meteor | ological Advis | sories for coming 5 days |
|--|--|------------------------------------|---|
| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
| Sali/Kharif Rice (Lowland) Pea | Ripening/Harvestin g stage ASSAM Vegetative stage | | Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. Thinning & gap filling should be done 10-15 days after |
| Pea ^{soon} | | C HINE | • Maintain proper soil moisture in the the field by irrigation. |
| Root Crop (Radish, carrot) 25"300"N- | Vegetative | WEST ICHASI HILLS | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Vegetative | L.S. ROPORA RANGE | Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric | Maturity/Harvestin g | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple | Harvesting GHAL (NovApril) | SCALE 1 0 15 30 60 91*0'0''E | |





| | E. U.M. C. St. (| | |
|-------------------------|--|---|--|
| Khasi Mandarin Guava | Fruit Maturity/ Harvesting | Fruit drop/ Fruit fly | Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials. |
| Animal Sciences | | | |
| | Protect Animals/H | Birds from direct exposure | to cold weather. A |
| 90° | • Check for build u | p of insect nests in animal | houses & if required clean the same or as as a store |
| Poultry_ | All stages | | Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. |
| 28'0'0'N- | RAURAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE SALVAGERI BASTOSE | C HILLS C Coccidiosis | Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. |
| 25°30'0''N- | | (Symptoms: blood/mucus in feaces) Ranikhet disease | Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| | All stages BANGLADESH TE GIS LAB. GHALAYA) | SCALE 1: Deworming 60 60 | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose2500"N In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet |
| 90°0 | 0"E 90°30''0"E | Skin infection (Scabies) | weight once and repeat after 21 days. Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with <i>Brucella</i> <i>abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSepticae mia, Black Quarter Deworming | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. |



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| | | | Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
|--|-------------------------------|--|---|
| Fishery | | | |
| Maintain of p | roper dyke. | | |
| Common Carp (All varieties; Amur, Local common carp and Koi carps) | Brooders (Breeding season) | C & RD BLOCK MAP | Pond preparation: Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different |
| 90' 26'30'0''N- | 90"E 90"30"0"E | 91°0'0''E \$ | ponds for the month of December and combine them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts. |
| Major carps, Minor carps and murrels in particular | All Stages | Saprolegnia (Cotton wool disease) | Prophylactic measure: 28000"N Maintain the pH above 8. 7 Treatment: 8 Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. |
| 25°30'0''N- | CAREN GARO HILLS | Epizootic Ulcerative Syndrome (EUS) | Prophylactic measure: Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |
| Suggestion: Contact | nearby State Agril. | Staff or KVK staff for n | ecessary help and suggestion. |
| | re gis lab. Ghalaya) | SCALE 1: 0 15 30 60 | 1,350,000 90 120 Kilometers |
| 90°0 | '0''E 90°30'0''E | 91°0'0''E | 1°30'0"E 92°0'0"E 92°30'0"E 93°0'0"E |





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – EAST JAINTIA HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-21°C, Minimum Temp: 10-12°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-3 Okta, Maximum RH: 89-99%, Minimum RH: 48-66%, Wind speed: 4-6 Kmph, Wind direction: Northeast.

General Advisories:

- Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water. C & RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

Agro meteorological Advisories for coming 5 days

92°0'0"E

92°30'0''E

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|--|--|-----------------------------|---|
| Pea 26°0'0''N- | Vegetative stage | s.s.m. | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative Lestan Lestan Lestan Lestan Lestan | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Construction Construction | WEST WHASI HILLS | Maintain proper soil moisture in the the field by irrigation. 300 N Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric | Maturity/Harvestin g BANGLADESH | hand | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. BANGLADESH |
| | Harvesting (NovApril) ATE GIS LAB. IEGHALAYA) | SCA 0 15 30 91*0'0''E | Maturity indices: Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. |
| Khasi Mandarin | Fruit Maturity/ Harvesting | Fruit drop/ Fruit fly | Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. |





| | | | • Harvests along with stalk. |
|-----------------------|---|---|--|
| | | | • To prevent bird damage of Khasi Mandarin fruit use bird |
| | | | netting or used traditional methods of bird control. |
| Guava | | | • Do mulching by covering the tree basin with dry straws or |
| | | | black polycthylene sheet or with organic materials. |
| Animal Sciences | | | |
| Protect An | imals/Birds from direct | t exposure to cold weath | ner. |
| | <u>^</u> | in animal houses & if r | |
| Poultry | All stages | C & RD BLOCK 91'0'0''E | • Litter should be change periodically and provide clean |
| | | | drinking water and changed the water every day. |
| 26°30'0''N- | | | Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. |
| | | Coccidiosis | • Provide plenty of fresh and clean drinking water. |
| | | (Symptoms: | • Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed |
| | ASSAM | blood/mucus in feaces) | once a day as a preventive measure against coccidiosis. |
| 26°0'0''N- | | Ranikhet disease | • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| Piggery | All stages | RONGERIC Y | • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. |
| 25°30'0"N- | AND | WEST ISHASI HILLS | In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. |
| 25000101 | BANGLADESH | Skin infection (Scabies) | • Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck |
| 24°30'0''N- | ATE GIS LAB. IEGHALAYA) | Foot & Mouth Disease, HaemorrhagicSeptic aemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the form premies & at the entry/axit atleast for 10 days. |
| | | Deworming | farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
| Fishery | | | |
| • | Maintain of proper d | lyke. | |

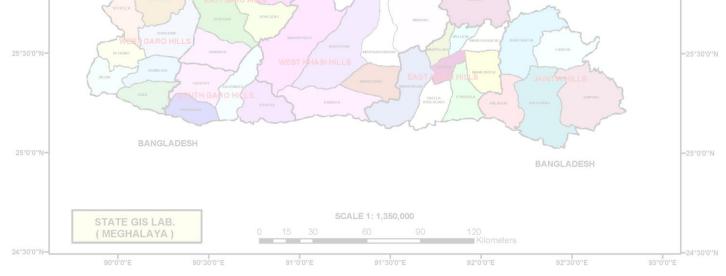




2: Telephone No. : 0364 2570276 (O) Fax: 0364 2570213/Email: iaasbarapani@yahoo.in

| Common Carp | Brooders | | Pond preparation: |
|-----------------|-------------------|----------------------|--|
| (All varieties; | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| Amur, Local | | | Maintain the water quality by proper manuring and water volume. |
| common carp and | | | Brood stock Management |
| Koi carps) | | | Select mature and big parent stock for breeding activity. |
| _ | | | If possible separate the male and female brooders in different |
| | | | ponds for the month of December and combine them at January |
| | | | for better response. |
| | | | Feeding Management |
| | | | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to |
| | | | the brooders. |
| | | | Health management: |
| | | | If any sick or infected fish is observed, then it must be |
| | | | immediately removed and examined for further treatment by |
| | | C & RD BLOCK | consulting subject experts. |
| Major carps, | All Stages | Saprolegnia (Cotton | Prophylactic measure: 92'30'0'E 93'0'0'E |
| Minor carps and | | wool disease) | Maintain the pH above 8. |
| murrels in | | | Treatment: -26*30'0"N |
| particular | | | Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm |
| | | | $KMnO_4$ thrice a week for 6 weeks. |
| | | | |
| | | Epizootic Ulcerative | Prophylactic measure: |
| | ASSAM | Syndrome (EUS) | Maintain the pH above 8. |
| 2000/0//14 | | | Treatment: |
| 26°0'0''N- | and , | a post south as | Apply CIFAX @ 1 litre/ha water spread area |
| 48 | THURLA V | 5 xm | FISH-X @ 1 Litre/ha |

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







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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

Management of fruit drop: Spraying with 2,4-D or

<u>Agro Advisory Bulletin – EAST KHASI HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 14-16°C, Minimum Temp: 6-7°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 1-7 Okta, Maximum RH: 70-90%, Minimum RH: 40-70%, Wind speed: 0-2 Kmph, Wind direction: Southwest-Northwest.

92°0'0''E

General Advisories:

Khasi Mandarin

Fruit Maturity/

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

90°0'0''E 90°30'0''E 91°0'0''E 91°30'0''E

| 26°30'0''N- Agr | o meteorolog | jical Advisories | for coming 5 days |
|--|-------------------------|--|---|
| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
| 26°0'0"N- | Vegetative stage | n Al | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation. |
| Root Crop (Radish, carrot | EASTISTICAL ROMOTING | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Vegetative | EST INHA SI HILLS | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric BA | Maturity/Harvestin g | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple STATE GIS (MEGHALA 24*30'0"N- 90'0'0"E | | SCALE 1: 1,350,000 5 30 60 90 91*0'0''E 91*30'0''E | Maturity indices: Colour change is the most common method of determining the maturity of fruits. For long distance transportation: Fully a) For long distance transportation: Fully a) For long distance transportation: Fully c) Table purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. |

•





| Г | XX | Γ | |
|---------------------------------------|------------------------|---|--|
| Guava | Harvesting | Fruit drop/ Fruit fly | GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic |
| | | | materials. |
| Animal Sciences | C | 1.1 | |
| | | to cold weather. P OF MEGHA | |
| 99 0 0 E | 00 00 0 E | houses & if required clean the | 52.00 E 52.000 E 60.00 E |
| Poultry | All stages | | Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature^o during night time. Keep the poultry house well ventilated during day time. Provide^{ss}vitamin B complex @ 7ml/litre in |
| 26°0'0''N- | | | Provide vitamin B complex @ /mi/fite in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately |
| 25°30'0''N- | | Coccidiosis (Symptoms: blood/mucus in feaces) | Discussed and dead onds should be ininediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure |
| 25°0'0''N- | ADESH | Ranikhet disease | against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| Piggery STATE GIS LA (MEGHALAY) | | SCALE 1: 1,350,000 5 30 60 90 | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs |
| 90°0'0"E | 90"3 ⁰ "0"E | 91*oʻoʻ'E 91*oʻoʻ'E Deworming | with FMD vaccine once in a year. Leason Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. |
| | | Skin infection | • Provide Ivermectin (Injection) @ 10mg/33kg |
| | | (Scabies) | body wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSepticaemia, | • Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, |
| | | | bullatoes against 1000 te mouth aboase, |





| | | Black Quarter Deworming | Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
|----------------------------|-----------------------|--|--|
| Fishery | 1 | 1 | - vitamin and mixed suppoments. |
| | of proper dyke. | | |
| Common Carp | Brooders C & | RD BLOCK MAP OF MEGHA | Pond preparation: |
| 26'0'0'N- | (Breeding season) | | Fond preparation:Maintain the water pH above 7 by liming properly.Maintain the water quality by proper manuring and water volume.Brood stock ManagementSelect mature and big parent stock for breeding activity.If possible separate the male and female brooders in different ponds for the month of December and |
| Major carps, Minor carps | All Stages | Saprolegnia (Cotton wool | Prophylactic measure: |
| and murrels in particular | CONTROL FARMAN | disease) EAST | Maintain the pH above 8. Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. |
| 25°0'0'N- | LADESH | Epizootic Ulcerative Syndrome (EUS) | Prophylactic measure: -25°00"N Maintain the pH above 8. Treatment: Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |
| Suggestion: Contact nearby | State Agril. Staff or | KVK staff for necessary he | Ip and suggestion. |
| 24°30'0''N- | 90°30'0''E | 91°0'0''E 91°30'0''E | Kilometers 92*0'0''E 92*0'0''E |





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

26°30'0''N

<u>Agro Advisory Bulletin – NORTH GARO HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 21-23° C, Minimum Temp: 10-12° C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-5 Kmph, Wind direction: East-South.

General Advisories:

26°30'0''N

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- Protect young seedling from direct exposure to sunshine. MAP OF MEGHALAYA

90°30'0''E 91°0'0''E 91°30'0''E

Agro meteorological Advisories for coming 5 days

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|---|--|---------------------------|---|
| Sali/Kharif Rice | Ripening/Harvestin | | • Field should be drained properly to remove the excess |
| (Lowland) | g stage ASSAM | | soil moisture by constructing drainage channel around plots. |
| 26°0'0''N- | THE REAL AND A DESCRIPTION OF A DESCRIPR | Januar Jan Jan | Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. |
| 25"30'0"N- | Vegetative stage | NUCCTION NUMBER STATES | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative | ROHORA RAINER | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Vegetative | SCALE 1: 1,35 | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric MEGI | Maturity/Harvestin | 0 15 30 60 | 90Avoid irrigation. |
| 24°30'0''N | g 90°30'0''E | 91°0'0"E 91°30 | Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple | Harvesting (NovApril) | | Maturity indices: Colour change is the most common method of determining the maturity of fruits. For long distance transportation: Fully mature fruits in green itself just before colour change. Canning purpose: Slight colour change at the base of developing fruit. Table purpose: Develops satisfactory uniform golden yellow colour About 25% of the eyes at the base are are becoming flat. Method of harvesting: Harvesting is done with a |





| | | | sharp knife, severing the fruit-stalk with a clean cut |
|--------------------|-------------------------|----------------------------|--|
| | | | retaining 5-7m of stalk with the fruit without damage to |
| | | | the fruit. |
| | | | Earthing up after harvested |
| Khasi Mandarin | Fruit Maturity/ | | • Management of fruit drop: Spraying with 2,4-D or GA3 |
| | Harvesting | | @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or |
| | | Fruit drop/ | spraying of Planofix @ 1ml/5 litres of water minimise |
| | | Fruit fly | the fruit drop. |
| | | | • Collect & discard of fallen fruits to avoid attraction of |
| | | | fruit fly. |
| | | | • Harvests along with stalk. |
| | | | • To prevent bird damage of Khasi Mandarin fruit use bird |
| | | | netting or used traditional methods of bird control. |
| Guava | | C & RD BLOCK MAP OF | |
| 90°0'0 | E 90°30'0''E | 91°0'0''E 91°30 | or black polycthylene sheet or with organic materials. |
| Animal Sciences | | | |
| 20 30 0 11- | s/Birds from direct exp | | -26°30'0''N |
| Check for build | | nimal houses & if required | clean the same. |
| Poultry | All stages | | • Provide artificial heating to poultry birds (day old to 25 |
| | | | days old) through lightning of electric bulb to protect |
| | | | them from low temperature during night time. |
| | ASSAM | | • Keep the poultry house well ventilated during day time. |
| 26°0'0''N- | - | | • Provide vitamin B complex @ 7ml/litre in drinking |
| 26°0'0''N- | ren Dos | 2 | water daily in broiler for healthy growth. |
| 8 5 | TRADERLA RESUMELIARA | a stand | • Litter should be change periodically and provide clean |
| 5 | BARENGON FEASTGARO H | Le part King | drinking water and changed the water every day. |
| C SELSE LLA | 5 ~ 5 | RONG SHG | • Diseased and dead birds should be immediately |
| 2 | ROWGRAM | | removed. |
| - The | GARO HILLS | MONGSTON NONCOLON | • Regularly inspect the dropings of the poultry birds for |
| 25°30'0''N- | the / | WEDT PLACIFICLO | any diseases symptom25'30'0''N |
| 71x2AK (| CHOKNOT | Coccidiosis (Symptoms: | • Provide plenty of fresh and clean drinking water. |
| 2~0 | MAN TONTH GARO HILL | blood/mucus in feaces) | • Provide coccidiostatic like Amprolium @ 25-65 |
| | CARDINARIA | bioou/mucus in reaces) | mg/kg feed once a day as a preventive measure against coccidiosis. |
| | | Ranikhet disease | |
| | BANGLADESH | Kallikliet ülsease | • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old |
| 25°0'0''N- | | | through eye and nostril. ^{GLADESH} |
| Piggery | All stages | | |
| r igger y | All stages | | • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. |
| | | 00ALE4-405 | |
| | GIS LAB. | SCALE 1: 1,35 | ⁹⁰ FMD vaccine once in a year. |
| | ALAYA) | | Iron supplementation in piglet to prevent from piglet |
| 24°30'0''N- | 90°30'0''E | 91°0'0''E 91°30 | |
| | | Deworming | repeat after 14 days. |
| | | | • Deworm your pigs by albendazole @ 5-10 mg/kg |
| | | | body weight once and repeat after 21 days. |
| | | Skin infection | Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| | | (Scabies) | |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with |
| | | | Brucella abortus cotton strain-19 @ 5ml subcutaneous |
| | | | on the neck |
| | | Foot & Mouth Disease, | • Undertake regular immunization of cattle & buffaloes |
| | | HaemorrhagicSepticae | against Foot & Mouth disease, Haemorrhagic |
| | | mia, Black Quarter | septicaemia & Black Quarter. |
| | | | • To prevent FMD spread spray 4% sodium carbonate |
| | | | |





| Fishery | | Deworming | solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5- 10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
|------------------------|----------------------------|---|--|
| • Ma | aintain of proper dyke. | | |
| Common Carp | Brooders | | Pond preparation: |
| (All varieties; Amur, | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| Local common carp | ÷ / | | Maintain the water quality by proper manuring and water |
| and Koi carps) | | C & RD BLOCK MAP OF | |
| 90°0'0' | E 90°30'0''E | 91°0'0"E 91°30' | Brood stock Management 92"30'0"E 93"0'0"E |
| | | | Select mature and big parent stock for breeding activity. |
| | | | If possible separate the male and female brooders in |
| 26°30'0''N- | | | different ponds for the month of December and combine |
| | | | them at January for better response. |
| | | | Feeding Management |
| | | | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be |
| | ASSAM | | provided to the brooders. |
| | ASSAM | | Health management: |
| 26°0'0''N- | 00 | | If any sick or infected fish is observed, then it must be |
| 55 | And I have | 3,000 | immediately removed and examined for further treatment |
| 8 5 | TRANKALA RETURNA | XHAREFTER THE AND | by consulting subject experts. |
| Major carps, Minor | All Stages | Saprolegnia (Cotton | Prophylactic measure: |
| carps and murrels in | 5 25 5 | wool disease) | Maintain the pH above 8. |
| particular | BONGSAN C | | Treatment: |
| - We | GARO HILLS | www.uvanut | Salt bath for 2 mins @ 2g/Liter water and followed by |
| 25°30'0''N- | SAMANCA / | WEST KHASI HILLS | 5ppm KMnO ₄ thrice a week for 6 weeks. |
| man - | | 5 | EAST A HILLS |
| Lat | DALE CHOKPOT BACHMARA | Epizootic Ulcerative | Prophylactic measure: |
| | Security GARO HILLS | Syndrome (EUS) | Maintain the pH above 8. |
| | - ll | minut | Treatment: |
| | | | Apply CIFAX @ 1 litre/ha water spread area |
| 25°0'0''N- | BANGLADESH | | FISH-X @ 1 Litre/ha |
| Suggestion: Contact no | earby State Agril. Sta | aff or KVK staff for nece | essary help and suggestion. |
| | j <i>State i 1</i> 8111 St | | |
| | | | |
| | | SCALE 1: 1,350 | 0.000 |
| | GIS LAB. | 0 15 30 60 | 90 120 |
| (MEGH | IALAYA) | 0 10 00 00 | 90 120 Kilometers |

90°0'0''E

90°30'0''E

91°0'0''E

91°30'0''E





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

93°0'0''E

92°30'0''E

<u>Agro Advisory Bulletin – Ri-Bhoi</u> (Period 11th – 15th December, 2019)

| Weather summary of the past four days | Weather forecast valid up to 15 th December, 2019 |
|--|--|
| Sky was mainly cloudy with 5.8 mm of rainfall. Maximum temperatures ranged between 19.6-24.0°C and minimum ranged between 7.0-9.1°C. Mean relative humidity was 80-89% in morning and 40-52% in evening. Wind speed ranged between 4-5 kmph. | The possibility of Rainfall is 2.0 mm for the next five days. Maximum Temp: 20.0-21.0°C, Minimum Temp: 11.0-12.0°C, Cloud cover: sky will be mainly clear to mainly cloudy i.e. 2-5 Okta, Maximum RH: 80-90%, Minimum RH: 50-70%, Wind speed: 3-5 Kmph, Wind direction: South. |
| Ceneral Advisories: | |

- Transplant Rabi crop seedling to main field. RD BLOCK MAP OF MEGHALAYA
- ➢ Apply straw mulch to conserve water.
 91°0°E
 91°0°E
 92°0°E
- Protect young seedling from direct exposure to sunshine.

26°30'0''N

Agro meteorological Advisories for coming 5 days

| Main Crop | AssStage | Pest/Diseases | Agricultural Advisories |
|--|---|----------------------------------|---|
| Pea 26'0'0"N- | Vegetative stage | MIDENTE JAM K | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative Break GARO HILLS | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | CALE Vegetative | ADRICK | Maintain proper soil moisture in the the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric | Maturity/Harvesting | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple STATE (MEGI 24*30'0"N- 90*0'0" | Harvesting (Nov GIS LAPril) ALAYA | SCALE 1: 15 30 60 91*0'0"E | Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested |





| Khasi Mandarin | Fruit Maturity/ | | • Management of fruit drop: Spraying with 2,4-D or GA3 @ |
|--------------------|------------------------------|---|--|
| | Harvesting | Fruit drop/ Fruit fly | 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. |
| Guava | | | Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials. |
| Animal Sciences | | | |
| | ls/Birds from direct expos | ure to cold weather | & wind. |
| | d up of insect nests in anin | | |
| Poultry 90°0 | | 91°0'0"E | Provide artificial heating to poultry birds (day old to 25 |
| 26°30'0''N- | | | days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water |
| 26°0''N- | ASSAM | | Provide vitaliti B complex @ /ini/lite in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. |
| 26°0'0''N- | S INVIALA NEWSELINAA | man | • Regularly inspect the dropings of the poultry birds for any diseases symptom. |
| | | Coccidiosis (Symptoms: blood/mucus in feaces) | Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. |
| 25°30'0"N- | | Ranikhet disease | • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| 25°0'0''N | All stages BANGLADESH | AASOS | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. |
| | | Deworming | • Iron supplementation in piglet to prevent from piglet anaemia during 1 st week of age (0.5-1 ml IM/SC) repeat after 14 days. |
| | E GIS LAB. | SCALE 1 15 30 60 | weight once and repeat after 21 days. |
| 24°30'0''N- | "E 90°30'0''E | Skin infection | Provide Ivermectin (Injection) @ 10mg/33kg body wt.300"N 32'00"E 32'00"E 32'00"E |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | Vaccinate 6-9 months old Heifer (Female) with <i>Brucella</i> <i>abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSe pticaemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. |
| | | Deworming | Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not |





| | | | give to pregnant & new born animals. |
|--|--|-------------------------------------|---|
| | | | Vitamin and mixed supplements. |
| Fishery | | | • Vitannii and mixed supplements. |
| V | aintain of proper dyke. | | |
| Common Carp | Brooders | | Pond preparation: |
| (All varieties; Amur, Local common carp and Koi carps) | (Breeding season) | | Maintain the water pH above 7 by liming properly. Maintain the water quality by proper manuring and water volume. |
| | ге 90°30'0''Е | & RD BLOCK MAP | Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided |
| 26°30'0''N- | | , | to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts. |
| Major carps, Minor | All Stages | Saprolegnia | Prophylactic measure: |
| carps and murrels in | ASSAM | (Cotton wool | Maintain the pH above 855AM |
| 26°0'0''N- | | disease) Epizootic Ulcerative | Treatment: Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment: |
| 25°30'0"N- | EAMANEA | Syndrome (EUS) | Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |
| Suggestion: Contact n | SALI CONSIGNATION OF CONSIGNATI OF CONSIGNATI OF CONSIGNATIA OF CONSIGNATIA OF | or KVK staff for n | ecessary help and suggestion. |
| 25°0'0''N- | BANGLADESH | | -25°0'0"N BANGLADESH |
| (MEGH | GIS LAB. HALAYA) | SCALE 1: 15 30 60 | 90 120 Kilometers |
| 24°30'0''N- | E 90°30'0''E | 91°0'0''E | L-24°30'0"N N°30'0"E 92°30'0"E 93°0'0"E |





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

Agro Advisory Bulletin – SOUTH GARO HILLS (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 20-23°C, Minimum Temp: 10-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 70-90%, Minimum RH: 30-50%, Wind speed: 4-5 Kmph, Wind direction: Northeast.

General Advisories:

26°30'0''N-

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine.

-26°30'0''N

Agro meteorological Advisories for coming 5 days

92°0'0"E

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|--|--|-----------------------------|--|
| Sali/Kharif Rice | Ripening/Harvesting stage BAST GRO HILLS | | Field should be drained properly to remove the excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. |
| Pea Carrier Carrier | Vegetative stage wes | RANKOR | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the field by irrigation. |
| Root Crop (Radish _{2ANC} ⁵⁵ carrot) | 3LADESH Vegetative | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, TATE GIS L Broccoli) (MEGHALAY | (A) 0 15 | SCALE 1: 1,350,000 30 60 | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmeric | Maturity/Harvesting | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| Pineapple | Harvesting (NovApril) | | Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. |





| | | | | c) Table purpose: Develops satisfactory |
|-------|-----------------|----------------------------|------------------------------|---|
| | | | | uniform golden yellow colour |
| | | | | 2) About 25% of the eyes at the base are are |
| | | | | |
| | | | | becoming flat. |
| | | | | 3) Method of harvesting: Harvesting is done with |
| | | | | a sharp knife, severing the fruit-stalk with a clean |
| | | | | cut retaining 5-7m of stalk with the fruit without |
| | | | | damage to the fruit. |
| | | | | |
| | | | | Earthing up after harvested |
| | Khasi Mandarin | Fruit Maturity/ | | • Management of fruit drop: Spraying with 2,4-D or |
| | | Harvesting | | GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) |
| | | 0 | Fruit drop/ | or spraying of Planofix @ 1ml/5 litres of water |
| | | | Fruit fly | minimise the fruit drop. |
| | | | I full Hy | |
| | | C & RI | BLOCK MAP OF ME | Collect & discard of fallen fruits to avoid attraction |
| | | | | of fruit fly. |
| | 90°0'0''E | 90°30'0''E 91' | 0'0''E 91°30'0''E | Harvests along with stalk. |
| | | | | • To prevent bird damage of Khasi Mandarin fruit use |
| 26°3 | 0'0''N- | | | |
| 20:3 | 0 0 N- | | | bird netting or used traditional methods of bird |
| | | | | control. |
| | Guava | | | • Do mulching by covering the tree basin with dry |
| | | | | straws or black polycthylene sheet or with organic |
| | | | | materials. ASSAM |
| | <u> </u> | ASSAM | | Inderfais. Assam |
| | Animal Sciences | | | 1 mg |
| 26 | | s/Birds from direct expos | | -26°0′0''N |
| | Check for build | up of insect nests in anir | nal houses & if require | ed clean the same. |
| | Poultry 5 | All stages | In a me | • Provide artificial heating to poultry birds (day old |
| | 5 CABENG | EAST GARO HIN S | per / Kum | to 25 days old) through lightning of electric bulb |
| | Carriera 2 | ~ ~ ~ ~ | | to protect them from low temperature during night |
| | 2 Ser | SONGRAG RONGRAG | / / <u>`</u> | |
| | Act of the | HILLS | avanus / | time. |
| 25.02 | 0'0"N- | SAMANUA | MOWIGS TOTH | • Keep the poultry house well ventilated during day |
| 20 0 | Mart 1 | wes | T KHASI HILLS | time. |
| | ZNCAN CAMPEO | | | • Provide vitamin B complex @ 7ml/litre in |
| | | CHOKNOT BACHIMERA | | drinking water daily in broiler for healthy growth. |
| | | A DECK OF AND ROBORS | IOAIISKOR | |
| | | | mand 1 | • Litter should be change periodically and provide |
| | | | h | clean drinking water and changed the water every |
| | | ADESH | | day. |
| 25 | 0'0''N- | | | • Diseased and dead birds should be immediately |
| | | | | removed. |
| | | | | Regularly inspect the dropings of the poultry birds |
| | | | | |
| | | | OSCALE 1: 1-250.000 | for any diseases symptom. |
| | STATE GIS LA | | Coccidiosis | • Provide plenty of fresh and clean drinking water. |
| | (MEGHALAY | 0 15 | ³⁰ (Symptoms: | • Provide coccidiostatic like Amprolium @ 25-65 |
| 24°3 | 0'0''N- | | blood/mucus in | mg/kg feed once a day as a preventive measure |
| | 90°0'0"E | 90°30'0''E 91° | feaces) ^{91°30'0"E} | against coccidiosis. |
| | | | Ranikhet disease | • Vaccinate the poultry birds with F1/ Lasota |
| | | | Kalliklict ulsease | |
| | | | | vaccine (1 drop) at the age of 4-7 days old and 35 |
| | | | | days old through eye and nostril. |
| | Piggery | All stages | | • Vaccinate all newly born piglets against swine |
| | | | | fever at the age of 3 months followed by annual |
| | | | | booster dose. |
| | | | | |
| | | | | • In endemic areas, vaccinate 6 months old pigs with |
| | | | | FMD vaccine once in a year. |
| | | | D . | • Iron supplementation in piglet to prevent from |
| | | | Deworming | piglet anaemia during 1 st week of age (0.5-1 ml |
| | | | | IM/SC) repeat after 14 days. |
| | | | | • Deworm your pigs by albendazole @ 5-10 mg/kg |
| | | 1 | | 20 morning our pige of unornauzore e 5 to mg/kg |





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| | | | body weight once and repeat after 21 days. |
|----------------------------|-------------------------|---|---|
| | | Skin infection | Provide Ivermectin (Injection) @ 10mg/33kg body |
| | | (Scabies) | wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease. Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & |
| 90°0'0''E | 00°30'0''E 91' | BLOCK MAP OF ME Deworming | • Deworm your cattle & buffaloes by albendazole @ |
| 0'0''N- | | | 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
| Fishery | | | |
| | aintain of proper dyke. | | |
| Common Carp | Brooders | | Pond preparation: |
| (All varieties; Amur, | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| Local common carp | | | Maintain the water quality by proper manuring and |
| and Koi carps) | M | | water volume. |
| and the second | TRAVELA / STAM | 4 | Brood stock Management |
| 55 | REBURE LIMITA RHADRETTA | han man | Select mature and big parent stock for breeding |
| SELSELLA DATE NO | EASTIGHRO HILLS | | activity. |
| 2 3- | SONGSAN 7 RONGJENG | | If possible separate the male and female brooders in |
| A BAR | HILLS | avaaa / | different ponds for the month of December and |
| 0'0"N- | SAMANGA: | NOWIGE TOW | combine them at January for better response. |
| CAMILE O | y wes | T MASTHILLS | Feeding Management |
| TREAK | S CHOKPOT LACHMARA | innerrent EA | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be |
| DALH DALH | CONTH GARO HILLS | RANKOR | provided to the brooders. |
| | CERTIANALA | man / | Health management: |
| | | the second | If any sick or infected fish is observed, then it must be |
| 0'0''N- | ADESH | | immediately removed and examined for further |
| | | | treatment by consulting subject experts. |
| Major carps, Minor | All Stages | Saprolegnia | Prophylactic measure: |
| carps and murrels in | | (Cotton wool | Maintain the pH above 8. |
| particular | | disease) | Treatment: |
| STATE GIS LA (MEGHALAY) | | SCALE 1: 1,350,000 30 60 | Salt bath for 2 mins @ 2g/Liter water and followed by 5ppm KMnO ₄ thrice a week for 6 weeks. |
| 0,0,N- | 90°30'0''E 91° | 0'0''E 91°30'0''E | Prophyla 24'30'0''E 93'0'''E 93'0'''E |
| .0000-E | 0000 L 01 | | i i opnylactic measure. |
| | | Epizootic Ulcerative | Maintain the pH above 8. Treatment: |
| | | L LICOPOTIVO | I CANIMANT' |
| | | | |
| | | Syndrome (EUS) | Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |

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



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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – SOUTH WEST GARO HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22-25°C, Minimum Temp: 12-13°C, Cloud cover: sky will be clear to partly cloudy i.e. 0-4 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-6 Kmph, Wind direction: Northeast-East.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300 E

Agro meteorological Advisories for coming 5 days —

92°0'0"E

92°30'0''E

| [| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|-----|---|--------------------------|-------------------|--|
| | Sali/Kharif Rice | Ripening/Harvestin | | • Field should be drained properly to remove the |
| 60 | (Lowland) | g stage | | excess soil moisture by constructing drainage channel around plots. Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for next crop. Prepare paddy field for rabi crops. |
| °3(| Pea Contraction of the second | Vegetative stage | WEST IGHASI HILLS | Thinning & gap filling should be done 10-15 days after sowing. Maintain proper soil moisture in the the field by irrigation. |
| 5°(| Root Crop (Radish, N Carrot) | GLADESRegetative | | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| | Cole crops (Cabbage, STATE GIS L Cauliflower, EGHALA | Vegetative | SCALE 1: 1,35 | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. |
| °30 | Broccoli) | 90°30'0''E | 91°0'0''E 91°30 | Collection & destruction of cutworm. |
| | Ginger/Turmeric | Maturity/Harvestin g | | Avoid irrigation. Harvest the crop when the above ground part of plant has fully dried. |
| - | Pineapple | Harvesting (NovApril) | | Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. |





| Mandarin | Fruit Maturity/ Harvesting | Fruit drop/ Fruit fly RD BLOCK MAP OF | c) Table purpose: Develops satisfactory uniform golden yellow colour 2) About 25% of the eyes at the base are are becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. |
|---------------|---|--|---|
| | | | • Harvests along with stalk. |
| | | | To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. |
| | | | • Do mulching by covering the tree basin with dry |
| | | | straws or black polycthylene sheet or with organic |
| | ASSAM | | materials. ASSAM |
| l Sciences | AUUAM | | 1 ma |
| Protect Anim | als/Birds from direct e | xposure to cold weather | -26°0'0'N |
| Check for bui | ld up of insect nests in | animal houses & if re | quired clean the same. |
| | ROUTE DESTRUCTION OF THE STOCK | WEST ISHA SI HILLS | Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. Regularly inspect the dropings of the poultry birds for any diseases symptom. |
| | | Coccidiosis (Symptoms: blood/mucus in feaces) Ranikhet disease | Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| y | All stages | Deworming | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. |
| | BOYO'E Sciences Protect Anim Check for buil M STATE GIS L (MEGHALA) BOYO'E | Harvesting 90'0'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30'0'E 90'30''E | Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strore strong Strore strore strong Harvesting Fruit drop/ Fruit fly C & RD BLOCK MAP OF strore strong Protect Animals/Birds from direct exposure to cold weather Check for build up of insect nests in animal houses & if res All stages BANCLADESH STATE GIS LAB. (MEGHALA (A) STATE GIS LAB. (MEGHALA (A) (MEGHALA (A) |





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| | | | body weight once and repeat after 21 days. |
|--|------------------------|---|---|
| | | Skin infection | • Provide Ivermectin (Injection) @ 10mg/33kg body |
| | | (Scabies) | wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | • Vaccinate 6-9 months old Heifer (Female) with <i>Brucella abortus</i> cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & |
| 90°0'0''E | 90°30'0''E | RD BLOCK MAP OF Deworming | Deworm your cattle & buffaloes by albendazole @ |
| | | | 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
| Fishery | | | ** |
| | Maintain of proper dyl | xe | |
| Common Carp | Brooders | | Pond preparation: ASSAM |
| (All varieties; | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| Amur, Local | | | Maintain the water quality by proper manuring and |
| common carp and | - Imar | Nn 2 | water volume. |
| Koi carps) | TRAVALLA REPORTANTA | and the second | Brood stock Management |
| Kor carps) | The second second | pan Kin | |
| C SUSSIEN L | Charlon to Hite | ng 14 11 | Select mature and big parent stock for breeding |
| | SONGSAN 7 RONG # | | activity. |
| Restor | RO HILLS | unescenas f | If possible separate the male and female brooders in |
| SO'O''N- | KO HILLS | NONGSTON MONTHABILABILAR | different ponds for the month of December and |
| Ant | 4-13 | WEST KHASI HILLS | combine them at January for better response. |
| THETAK CON | - 7 L | | Feeding Management |
| 2 DALH | CONTH GARO HILLS | | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be |
| | 2 селиница | HANKOR | provided to the brooders. |
| | - Low | -2 | Health management: |
| | | | If any sick or infected fish is observed, then it must be |
| °0'0''N- | GLADESH | | immediately removed and examined for further |
| | | | treatment by consulting subject experts. |
| 74. | A 11 C/ | 0 1 | |
| Major carps, | All Stages | Saprolegnia | Prophylactic measure: |
| Minor carps and | | (Cotton wool | Maintain the pH above 8. |
| murrel <mark>s in_{state} gis i</mark> | LAB. | disease) SCALE 1: 1,350 | Treatment: |
| particular (MEGHALA | YA) 0 | 15 30 60 | Salt bath for 2 mins @ 2g/Liter water and followed by |
| 30'0''N- | | | 5ppm KMnO ₄ thrice a week for 6 weeks. |
| 90°0'0"E | 90°30'0''E | 91°0'0''E 91°30' | ט"ב 92°ס'ט"ב 92°30'ט"ב 93°ס'ט"ב |
| | 1 | | Prophylactic measure: |
| | | | |
| | | Epizootic | Maintain the pH above 8. |
| | | Epizootic Ulcerative | Maintain the pH above 8. Treatment: |
| | | Ulcerative | Treatment: |
| | | | 1 |

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





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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – SOUTH WEST KHASI HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0mm for the next five days. Maximum Temp: 20-22°C, Minimum Temp: 9-11°C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-5 Okta, Maximum RH: 50-80%, Minimum RH: 20-50%, Wind speed: 5-6 Kmph, Wind direction: Northeast.

General Advisories:

- > Transplant Rabi crop seedling to main field.
- Apply straw mulch to conserve water. RD BLOCK MAP OF MEGHALAYA
- Protect young seedling from direct exposure to sunshine. 300"E

Agro meteorological Advisories for coming 5 days -

92°0'0"E

92°30'0''E

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|---|--------------------|----------------------------------|--|
| Pea | AVegetative stage | | • Thinning & gap filling should be done 10-15 days after sowing. |
| 0'0'N- 654 march | THIRD I HUNCLINGA | manning Jan Jan | • Maintain proper soil moisture in the the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative | | • To maintain proper spacing thining should be done 15-20 days after sowing. |
| 0'0"N- | ARO HILLS | MORESTON AND A CONSTRUCT ADDRESS | • Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, | Vegetative | RANGE RANGE | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. |
| Broccoli) | - Lhon | - I why | Collection & destruction of cutworm. |
| Ginger/Turmeric | Maturity/Harvestin | | Avoid irrigation. |
| | g | | • Harvest the crop when the above ground part o plant has fully dried. |
| Pineapple | Harvesting | SCALE 1: 1.3 | Maturity indices: |
| (MEGHAL | | 15 30 60 | 1) Colour change is the most common method of determining the maturity of fruits. |
| 90°0'0''E | 90°30'0''E | 91°0'0''E 91°3 | a) For long distance transportation: Fully mature fruits in green itself just before colour |
| | | | change.b) Canning purpose: Slight colour change at the base of developing fruit. |
| | | | c) Table purpose: Develops satisfactory |
| | | | uniform golden yellow colour2) About 25% of the eyes at the base are are |
| | | | becoming flat. |
| | | | 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut |
| | | | retaining 5-7m of stalk with the fruit without damage to the fruit. |
| | | | • Earthing up after harvested |





| Khasi Mandarin | Fruit Maturity/ Harvesting | Fruit drop/ Fruit fly | Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird control. |
|------------------------------|--|--|---|
| Guava | | | • Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials. |
| Animal Sciences | С | & RD BLOCK MAP OF | F MEGHALAYA |
| | imals/Birds from direct e | | |
| | build up of insect nests in | animal houses & if req | uired clean the same. |
| Poultry 26"B0"0"N- | All stages | | Provide artificial heating to poultry birds (day old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. |
| 200'0'N- | | | Provide vitamin B complex @ 7ml/litre in drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. |
| 25'80'0''N- | DAMAGEA ANIE OF DALINA CALINALISA DALINA CALINALISA CALINALISA CALINALISA CALINALISA | Coccidiosis (Symptoms: blood/mucus in feaces) | Regularly inspect the dropings of the poultry birds for any diseases symptom. Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. |
| 25°0'0''N- | BANGLADESH | Ranikhet disease | • Vaccinate the poultry birds with F1/ Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| Piggery STATE G (MEGHA | | SCALE 1: 1,35 | • Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster |
| 24'30'0''N90'0'''E | 90"30"0"E | 91*0'0"E 91*30 Deworming | FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. |
| | | Skin infection (Scabies) | • Provide Ivermectin (Injection) @ 10mg/33kg body wt. |
| Cattle & Buffaloes | 6-9 months calves | Brucellosis | Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5ml subcutaneous on the neck |
| | | Foot & Mouth Disease, HaemorrhagicSeptic | • Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. |





| | | | aemia, Black Quarter Deworming | To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. Deworm your cattle & buffaloes by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born animals. Vitamin and mixed supplements. |
|-------|---------------------|------------------------|--|---|
| Ļ | Fishery | | | |
| _ | | Maintain of proper dyk | æ. | |
| | Common Carp | Brooders | | Pond preparation: |
| | (All varieties; | (Breeding season) | | Maintain the water pH above 7 by liming properly. |
| | Amur, Local | C | & RD BLOCK MAP OF | Maintain the water quality by proper manuring and |
| | common carp and | 90°30'0''E | 91°0'0"E 91°30' | water volume |
| | Koi carps) | | | Brood stock Management Select mature and big parent stock for breeding activity. If possible separate the male and female brooders in different ponds for the month of December and combine |
| | D'O'N- | | | them at January for better response. Feeding Management High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be provided to the brooders. Health management: If any sick or infected fish is observed, then it must be immediately removed and examined for further treatment by consulting subject experts. |
| | Major carps, | All Stages | Saprolegnia (Cotton | Prophylactic measure: |
| | Minor carps and | ARO HILLS | wool disease) | Maintain the pH above 8. |
| 25920 | murrels in | ARO HILLS | монозтон. | Treatment: |
| | particular | AMIEGHE 3 | WEST KHASI HILLS | Salt bath for 2 mins @ 2g/Liter water and followed by |
| | | NGLADESH | Epizootic Ulcerative Syndrome (EUS) | 5ppm KMnO ₄ thrice a week for 6 weeks. Prophylactic measure: Maintain the pH above 8. Treatment: |
| 25% | 0'0''N- | a sine and the most t | | Apply CIFAX @ 1 litre/ha water spread area |
| | | | | FISH-X @ 1 Litre/ha BANGLADESH |
| 24°3(| Suggestion: Contact | LAB. | Staff or KVK staff for SCALE 1: 1,350 15 30 60 | necessary help and suggestion. |



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RC (AE)/30/2011/ Bulletin/December'2019/73

Dated: 10/12/2019

<u>Agro Advisory Bulletin – WEST GARO HILLS</u> (Period 11th – 15th December, 2019)

Weather forecast valid up to 15th December, 2019

The possibility of Rainfall is 0.0 mm for the next five days. Maximum Temp: 22-24° C, Minimum Temp: 12-13° C, Cloud cover: sky will be clear to mainly cloudy i.e. 0-6 Okta, Maximum RH: 80-90%, Minimum RH: 50-60%, Wind speed: 4-5 Kmph, Wind direction: Northeast-East.

General Advisories:

90°0'0'

- > Transplant Rabi crop seedling to main field.
- > Apply straw mulch to conserve water.
- > Protect young seedling from direct exposure to sunshine.

90°30'0''E

& RD BLOCK MAP OF MEGHALAYA

91°30'0"E

92°0'0"E

91°0''E

| Main Crop | Stage | Pest/Diseases | Agricultural Advisories |
|--|-----------------------------------|---------------------------------------|--|
| Sali/Kharif Rice (Lowland) | Ripening/Harvesting stage | | • Field should be drained properly to remove the excess soil moisture by constructing drainage |
| | A\$SAM | | Rice crop should be harvested keeping 20 cm stubbles in field & field may be kept ready for |
| Solution and the second | TITUELA IL MILLEAN AL ALANDITA | en the second | next crop. Prepare paddy field for rabi crops. |
| Pea Suma A | Vegetative stage | Y INNERAL | • Thinning & gap filling should be done 10-15 day. after sowing. |
| 30'0''N- | O HILLS | ASI HILLS | • Maintain proper soil moisture in the field by irrigation. |
| Root Crop (Radish, carrot) | Vegetative | RAINS ON CONSTRUCTION OF CONSTRUCTION | To maintain proper spacing thining should be done 15-20 days after sowing. Do irrigation at an alternate days. |
| Cole crops (Cabbage, Cauliflower, Broccoli) | Vegetative | SCALE 1: 1,350,000 | Maintain proper soil moisture in the field by irrigation. Do weeding & earthing up. Collection & destruction of cutworm. |
| Ginger/Turmericialay | A Maturity/Harvesting | 30 60 90 | Avoid irrigation. |
| 90°0'0''E | 90°30'0''E 91°0'0'' | 91°30'0"E | Harvest the crop when the above ground part of plant has fully dried. ³³⁰⁰ ^{TE} |
| Pineapple | Harvesting (Nov April) | | Maturity indices: 1) Colour change is the most common method of determining the maturity of fruits. a) For long distance transportation: Fully mature fruits in green itself just before colour change. b) Canning purpose: Slight colour change at the base of developing fruit. c) Table purpose: Develops satisfactory uniform golden yellow colour |





| Khasi M | andarin | Fruit Maturity/ Harvesting C & RD E | Fruit drop/ Fruit fly LOCK MAP OF MEGF | becoming flat. 3) Method of harvesting: Harvesting is done with a sharp knife, severing the fruit-stalk with a clean cut retaining 5-7m of stalk with the fruit without damage to the fruit. Earthing up after harvested Management of fruit drop: Spraying with 2,4-D or GA3 @ 15 (mg/l) +Urea (10 g/l) + Benomyl (1g/l) or spraying of Planofix @ 1ml/5 litres of water minimise the fruit drop. Collect & discard of fallen fruits to avoid attraction of fruit fly. Harvests along with stalk. To prevent bird damage of Khasi Mandarin fruit use bird netting or used traditional methods of bird |
|-----------------------|--------------------------------|--|--|--|
| | 9000E | 30300 E 3100 | 51300E | control. |
| Guava 26''30'0''N- | | | | • Do mulching by covering the tree basin with dry straws or black polycthylene sheet or with organic materials. |
| Animal S | | | . 11 .1 | |
| | | Birds from direct exposure p of insect nests in animal | | lean the same ASSAM |
| Poultry | Check for build u | All stages | | • Provide artificial heating to poultry birds (day |
| 26°0'0''N | Contraction of the second | | MULTIC NOTICE | old to 25 days old) through lightning of electric bulb to protect them from low temperature during night time. Keep the poultry house well ventilated during day time. Provide vitamin B complex @ 7ml/litre in |
| 25°30'0''N- | CARLOR DECK | ULS ANSWER WEST IN | | drinking water daily in broiler for healthy growth. Litter should be change periodically and provide clean drinking water and changed the water every day. Diseased and dead birds should be immediately removed. |
| 25°0'0''N- | BANGLA | DESH | | • Regularly inspect the dropings of the poultry birds for any diseases symptom. |
| | STATE GIS LAB (MEGHALAYA) | 0 15 3 | Coccidiosis (Symptoms: blood/mucus in feaces) | Provide plenty of fresh and clean drinking water. Provide coccidiostatic like Amprolium @ 25-65 mg/kg feed once a day as a preventive measure against coccidiosis. |
| 24°30'0''N- | 90°0'0''E | 90°30'0''E 91°0'0''E | Ranikhet disease | • Vaccinate the poultry birds with F1 / Lasota vaccine (1 drop) at the age of 4-7 days old and 35 days old through eye and nostril. |
| Piggery | | All stages | Deworming | Vaccinate all newly born piglets against swine fever at the age of 3 months followed by annual booster dose. In endemic areas, vaccinate 6 months old pigs with FMD vaccine once in a year. Iron supplementation in piglet to prevent from piglet anaemia during 1st week of age (0.5-1 ml IM/SC) repeat after 14 days. Deworm your pigs by albendazole @ 5-10 mg/kg body weight once and repeat after 21 days. |





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| | | | Skin infection | Provide Ivermectin (Injection) @ 10mg/33kg |
|----------------------|--------------------------------|----------------------|---|--|
| | | | (Scabies) | body wt. |
| Cattle | & Buffaloes | 6-9 months calves | Brucellosis | Vaccinate 6-9 months old Heifer (Female) with Brucella abortus cotton strain-19 @ 5m subcutaneous on the neck |
| | | | Foot & Mouth Disease, HaemorrhagicSepti caemia, Black Quarter | Undertake regular immunization of cattle & buffaloes against Foot & Mouth disease, Haemorrhagic septicaemia & Black Quarter. To prevent FMD spread spray 4% sodium carbonate solution (400 gm Na₂ Co₃ in 10 litres of water) or lime/ bleaching powder should be spread every day atleast once around the farm premise & at the entry/exit atleast for 10 days. |
| | | C & RD B | LOC Deworming | Deworm your cattle & buffaloes by albendazole |
| | 90°0'0''E | 90°30'0''E 91°0'0'' | 91°30'0''E | @ 5-10 mg/kg body weight once and repeat after 21 days. Do not give to pregnant & new born |
| 6°30'0''N- | | | | animals. Vitamin and mixed supplements. |
| Fishe | rv | | | |
| • | | tain of proper dyke. | | |
| Comm | ion Carp | Brooders | | Pond preparation: |
| | arieties; Amur, As | | | Maintain the water pH above 7 by liming properly. |
| | common carp and | | | Maintain the water quality by proper manuring and |
| ²⁰ Koi ca | rps) 🕈 | 2 | M | water volume. |
| | 1 35 15 | 1 Januar | 620 | Brood stock Management |
| | 50 | HERVELINGA BURARETTA | MANG | Select mature and big parent stock for breeding |
| | DARENGGRI | EAST GRO HILLS | 1 Junior | activity. |
| | Saran 2 2 | SONGSAM RONGANG | Murang | If possible separate the male and female brooders in |
| | S Ronana | | | different ponds for the month of December and |
| | WEST GARO H | ILLS MONYAUYABUT | Numeson Const | combine them at January for better response. |
| 5°30'0''N- | IL TASHG | WEST KH | ASIHILLS | Feeding Management |
| | ZIKZAR GAMER GRE | | EAST | High protein feeds <i>i.e.</i> (35 to 40%) protein feeds to be |
| | DALL P | CHOKROT BACHMARA | | provided to the brooders. |
| | - 2 | KANNARA KONGRA | RAINKOR AND BHOS | Health management: |
| | | - they | - the | If any sick or infected fish is observed, then it must be |
| | 511101 | | | immediately removed and examined for further |
| 25°0'0''N- | BANGLA | DESH | | treatment by consulting subject experts. |
| Major | · carps, Minor | All Stages | Saprolegnia | Prophylactic measure: |
| | and murrels in | All Stages | (Cotton wool | Maintain the pH above 8. |
| partic | | | disease) | Treatment: |
| partice | | | SCALE 1: 1,350,000 | Salt bath for 2 mins @ 2g/Liter water and followed by |
| | STATE GIS LAB (MEGHALAYA) | 0 15 3 | 0 60 90 | 5ppm KMnO ₄ thrice a week for 6 weeks. |
| 4°30'0''N- | 0000 | | in the former | -24°30'0''N |
| | 90°0'0''E | 90°30'0''E 91°0'0''E | 91°30'0''E | Prophylactic measure: 93'00"E 93'00"E |
| | | | Epizootic | Maintain the pH above 8. |
| 1 | | | Ulcerative | Treatment: |
| | | | | |
| | | | Syndrome (EUS) | Apply CIFAX @ 1 litre/ha water spread area FISH-X @ 1 Litre/ha |

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