ICAR-National Research Centre for Integrated Pest Management, Pusa, New Delhi Weekly Status Report on Insects Pests & Diseases of Crops

Name of Institute: ICAR - INDIAN INSTITUTE OF SPICES RESEARCH, KOZHIKODE 673 012, KERALA

Date: 09.05.2019 – 15.05.2019

| | | | Major Insect Pests | | Major Plant Diseases | | Other Pests | | |
|--------|---------------|----------------------------|------------------------------|---|------------------------------|--|---|----------------------------------|--|
| Сгор | Crop Stage | Location (with GPS) | Name (Scientific Name) | Status (Low, Medium & Severe) | Name (Scientific Name) | Status (Low, Mediu m & Severe) | (Nematodes, Rat, etc.) (Scientific Name) | Pest Advisories | |
| Black | Nursery/ | Idukki, | Scale insects | Medium | Stunt disease | High | Nematodes | Field: | |
| pepper | Bearing stage | Kozhikode, | (Protopulvinar | | (Cucumber | | (Radopholus | Stunt disease | |
| | | Wayanad | ia | | mosaic virus, | | similis, | Regular monitoring. Remove | |
| | | (Kerala), | longivalvata, | | Piper yellow | | Meloidogyn | infected vines and destroy by | |
| | | Kodagu | Lepidosaphes | | mottle virus) | | e incognita) | burning or burying deep in soil. | |
| | | (Karnataka) | piperis, | | Slow decline | High | (Nursery) | Control the vector (mealy bugs) | |
| | | ,Tamil | Unaspis sp.) | | (Meloidogyne | | | by drenching neem oil (0.5%). | |
| | | Nadu | (Field) | | incognita, | | | Slow decline | |
| | | | Root | Medium | Radopholus | | | Remove and destroy severely | |
| | | | mealybug | | similis) | | | affected vines. Apply neem cake | |
| | | | (Planococcus | | Anthracnose Low | | | @ 500g/vine and biocontrol | |
| | | | sp.) (Field) | _ | (Colletotrichum | | | agents like Pochonia | |
| | | | Pollu beetle | Low | spp.) | | | chlamydosporia or Trichoderma | |
| | | | (Lanka | | (Nursery) | _ | | harzianum @ 50 g/vine and | |
| | | | ramakrishnai) | | Basal wilt Low | | | metalaxyl-mancozeb (0.125%) | |
| | | | (Field) | 3 5 41 | (Sclerotium | | | may also be applied. | |
| | | | Mealybug | Medium | rolfsii) (Nursery) | | | Scale insects | |
| | | | (Planococcus | | Viral infection | TT' 1 | | Spray neem oil (0.5%), once | |
| | | | - | (Nurgory) | | High | | infestation is noticed. | |
| | | | virguia) | | | | Root mealybug | | |
| | | | (Nursery) | | | | | Drench neem oil (0.5%), once | |

| Г | | |
|---|--|---------------------------------------|
| | | infestation is noticed. |
| | | Pollu beetle |
| | | Spray neem oil (0.5%), once |
| | | infestation is noticed. |
| | | Nursery: |
| | | Anthracnose |
| | | Spray Bordeaux mixture (1%). |
| | | Basal wilt |
| | | Remove and destroy affected |
| | | cuttings along with defoliated |
| | | leaves. |
| | | After periodic sanitation, the |
| | | cuttings should be drenched with |
| | | carbendazim (0.2%) or Bordeaux |
| | | mixture (1%). Viral infections |
| | | |
| | | Regular inspection and removal |
| | | of infected plants. Regular |
| | | monitoring for insects and spray |
| | | with neem oil (0.5%) whenever |
| | | infestation is noticed. |
| | | Mealy bug and scale insects |
| | | Spray neem oil (0.5%), once |
| | | infestation is noticed. |
| | | Nematodes |
| | | Apply Pochonia chlamydosporia |
| | | @ 1g/bag. |

| Cardamom | Flowering | Idukki, | Thrips | Medium | Leaf blight | Medium | Leaf blight |
|----------|-----------|-------------|-----------------|--------|-----------------|--------|------------------------------------|
| | | Wayanad | (Sciothrips | | (Colletotrichum | | Maintain optimum shade level by |
| | | (Kerala), | cardamomi) | | spp.) | | providing 40-60% filtered light. |
| | | Kodagu | Shoot borer | Low | Katte/Mosaic | Medium | Katte/ Mosaic |
| | | (Karnataka) | (Conogethes | | (Cardamom | | Prompt inspection of plantation, |
| | | | punctiferalis) | | mosaic virus) | | detection and rouging of virus |
| | | | | | Chlorotic | Low | sources (infected plants/ |
| | | | | | streak | | volunteers) to reduce re- |
| | | | | | (Banana bract | | infection. The removed plants |
| | | | | | mosaic virus) | | may be burnt or buried deep in |
| | | | | | | | soil. Removal of natural hosts |
| | | | | | | | like Colocasia and Caladium to |
| | | | | | | | destroy breeding sites and check |
| | | | | | | | population build-up of the vector. |
| | | | | | | | Chlorotic streak |
| | | | | | | | Prompt inspection of plantation, |
| | | | | | | | detection and rouging of virus |
| | | | | | | | sources (infected plants/ |
| | | | | | | | volunteers) to reduce re- |
| | | | | | | | infection. The removed plants |
| | | | | | | | may be burnt or buried deep in |
| | | | | | | | soil. |
| | | | | | | | Shoot borer |
| | | | | | | | Spray quinalphos (0.075%). |
| | | | | | | | Thrips |
| | | | | | | | Spray quinalphos 25%EC |
| | | | | | | | (0.075%) after undertaking |
| | | | | | | | thrashing. |

| Vanilla | Bean | Karnataka | | | Premature | Medium | Duomot | une vellering and been |
|----------|------------|------------|---------------|--------|-----------------|--------|--------------|-----------------------------|
| vaiiiia | | Karnataka | | | | Medium | | ure yellowing and bean |
| | maturing/ | | | | yellowing and | | sheddin | |
| | Harvesting | | | | bean shedding | | | 50% shade in the |
| | | | | | (Colletotrichum | | plantation | |
| | | | | | vanillae) | | 1 2 | arbendazim – mancozeb |
| | | | | | Root and stem | Low | | at $15 - 20$ days interval. |
| | | | | | rot | | Root an | d stem rot |
| | | | | | (Fusarium | | Soil d | renching with copper |
| | | | | | oxysporum f.sp. | | oxychlo | ride @ 0.25% followed |
| | | | | | vanillae) | | by spr | ay with carbendazim |
| | | | | | Viral diseases | Low | (0.25%) | at monthly interval. |
| | | | | | (Bean common | | Viral di | seases |
| | | | | | mosaic virus, | | Regular | inspection and removal |
| | | | | | Bean yellow | | | ted plants. The removed |
| | | | | | mosaic virus, | | | nay be burnt or buried |
| | | | | | Cucumber | | | soil. Control of vector |
| | | | | | mosaic virus, | | | may be undertaken by |
| | | | | | Cymbidium | | \ ± / | g neem oil (0.5%). |
| | | | | | mosaic virus) | | Spr. w., 2 | , 1100111 011 (010 /0/) |
| Ginger & | Rhizome | Karnataka, | Rhizome scale | Medium | Dry rot | Medium | Rhizom | e scale |
| Turmeric | | Kerala | (Aspidiella | | (Macrophomin | | Harvest | the rhizomes on time, |
| | | Tioraia | hartii) | | a phaseolina) | | discard | severely infested |
| | | | | | a pressestmen) | | | s. Store seed rhizomes in |
| | | | | | | | | + Strychnos nuxvomica |
| | | | | | | | leaves | (dried) after seed |
| | | | | | | | treatmer | ` ' |
| | | | | | | | Dry rot | |
| | | | | | | | · | eatment with Mancozeb |
| | | | | | | | | |
| | | | | | | | (0.25%) | |
| | | | | | | | effective | 2. |

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