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

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| | | | 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, Medium & Severe) | (Nematodes, Rat, etc.) (Scientific Name) | Pest Advisories |
| Black pepper | Nursery/ Vegetative/ Spike formation | Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu | Mealybug (Planococcus sp., Ferrisia virgata) (Nursery) Scale insect (Protopulvinari a longivalvata) (Nursery) | Medium | Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita., Radopholus similis) Foliar infection/Foot rot (Phytophthora spp.) Anthracnose (Colletotrichum gloeosporioides) Anthracnose (Colletotrichum gloeosporioides) | Low Low Low | Nematodes (Radopholus similis, Meloidogyne incognita) (Nursery) | Field: Stunt disease Regular monitoring. Remove infected vines and destroy by burning or burying deep in soil. Control the vector (mealy bugs) by drenching neem oil (0.5%). Slow decline Remove and destroy severely affected vines. Apply neem cake @ 500g/vine and biocontrol agents like Pochonia chlamydosporia or Trichoderma harzianum @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. Foliar infection/Foot rot Follow strict phytosanitation. After the receipt of few monsoon showers, all the vines are to be drenched at a radius of 45-50 cm with copper oxychloride 0.2% @ 5-10 |
| | | | | | (Colletotrichum gloeosporioides) (Nursery) | | | |

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|----------|---|--------------|-------------|------------|------------------|-------|---|---------------------------------------|
| | | | | | Viral infection | Low | | Bordeaux mixture 1% is also to be |
| | | | | | (Nursery) | | | given. Alternatively, drenching and |
| | | | | | | | | spraying with potassium |
| | | | | | | | | phosphonate 0.3% @ 5-10 litres/ |
| | | | | | | | | vine (drench) or potassium |
| | | | | | | | | phosphonate 0.3% @ 5-10 litres/ |
| | | | | | | | | vine (drench) also may to be given. |
| | | | | | | | | Anthracnose |
| | | | | | | | | Prophylactic spraying with |
| | | | | | | | | Bordeaux mixture (1%) or |
| | | | | | | | | carbendazim - mancozeb (0.1%). |
| | | | | | | | | Nursery: |
| | | | | | | | | Anthracnose |
| | | | | | | | | Spray 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 insect |
| | | | | | | | | Spray neem oil (0.5%), once |
| | | | | | | | | infestation is noticed. |
| | | | | | | | | Nematodes |
| | | | | | | | | Apply Pochonia chlamydosporia @ |
| | | | | | | | | 1g/bag. |
| Cardamom | Vegetative/ | Idukki, | Thrips | Medium | Leaf blight | Low | | Leaf blight |
| | Panicle | Wayanad | (Sciothrips | 1110010111 | (Colletotrichum | 20 | | Maintain optimum shade level by |
| | initiation/ | (Kerala), | cardamomi) | | gloeosporioides) | | | providing 40-60% filtered light. |
| | Capsule | Kodagu | | | Azhukal/Capsul | Low | | Katte/ Mosaic |
| | formation | (Karnataka) | | | e rot | 20,,, | | Prompt inspection of plantation, |
| | 201111111111111111111111111111111111111 | (Tan natana) | | | (Phytophthora | | | detection and rouging of virus |
| | | | | | nicotianae var. | | | sources (infected plants/ volunteers) |
| | | | | | nicotianae and | | | to reduce re-infection. The removed |
| | | | | | P. meadii) | | | plants may be burnt or buried deep |
| | | | | | 1. meaan) | | | plants may be built of bulled deep |

| | 1 | 1 1 | | | T . | 1 |
|----------|------------|-----------|----------|-----------|-----|---|
| | | | Katte/M | | Low | in soil. Removal of natural hosts like |
| | | | (Cardan | | | Colocasia and Caladium to destroy |
| | | | mosaic v | · · | | breeding sites and check population |
| | | | Chlorot | ic streak | Low | build-up of the vector. |
| | | | (Banana | bract | | Chlorotic streak |
| | | | mosaic v | rirus) | | 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. |
| | | | | | | Azhukal/Capsule rot |
| | | | | | | Trashing and cleaning of the plant |
| | | | | | | basin need to be carried out. |
| | | | | | | Regulate thick shade. Prevent water |
| | | | | | | logging by providing adequate |
| | | | | | | drainage. Destroy disease affected |
| | | | | | | portions and plant debris. |
| | | | | | | Prophylactic sprays with Bordeaux |
| | | | | | | mixture (1%). Alternatively, fosetyl- |
| | | | | | | aluminium (0.2%) or potassium |
| | | | | | | phosphonate (0.3%) can be used. |
| | | | | | | Drench plant basin with copper |
| | | | | | | oxychloride (0.2%). |
| | | | | | | Thrips |
| | | | | | | Spray quinalphos 25%EC (0.075%) |
| | | | | | | after undertaking thrashing. |
| Vanilla | Vegetative | Karnataka | Leaf | spot | Low | Leaf spot |
| Y dillid | regetative | ixamataka | (Colleto | - | LOW | Provide 50% shade in the plantation. |
| | | | vanillae | | | Spray Bordeaux mixture (1%) at 15 |
| | | | Stem ro | | Low | - 20 days interval. |
| | | | (Fusariu | | LUW | Stem rot |
| | | | , | | | Remove and destroy infected plant |
| | | | vanillae | ım f. sp. | | |
| | | | 1 | | Low | parts. Apply Trichoderma |
| | | | Viral di | seases | Low | harzianum and Pseudomonas |

| | | | | | (Bean common | | fluorescens (cfu 10 ⁸) 50 g per vine. Viral diseases |
|--------|------------|------------|-----------------|------|----------------|------|---|
| | | | | | mosaic virus, | | |
| | | | | | Bean yellow | | Regular inspection and removal of |
| | | | | | mosaic virus, | | infected plants. The removed plants |
| | | | | | Cucumber | | may be burnt or buried deep in soil. |
| | | | | | mosaic virus, | | Control of vector (aphids) may be |
| | | | | | Cymbidium | | undertaken by spraying neem oil |
| | 77 | | T 0 11 | - | mosaic virus) | - | (0.5%). |
| Ginger | Vegetative | Karnataka, | Leaf roller | Low | Soft rot | Low | Soft rot |
| | | Kerala | (Udaspes folus) | | (Pythium | | Once disease is observed in field, |
| | | | Shoot borer | High | aphanidermatum | | remove affected clumps and drench |
| | | | (Conogethes | | and P . | | affected and surrounding beds with |
| | | | punctiferalis) | | myriotylum) | | mancozeb (0.3%) or metalaxyl |
| | | | | | Bacterial wilt | Low | mancozeb (0.125%) or copper |
| | | | | | (Ralstonia | | oxychloride (0.2%). |
| | | | | | solanaceraum) | | Bacterial wilt |
| | | | | | Leaf spot | High | Confirm identity of the disease by |
| | | | | | (Phyllosticta | | "ooze test". After confirming as |
| | | | | | zingiberi) | | bacterial wilt, affected clumps shall |
| | | | | | | | be removed carefully without |
| | | | | | | | spilling the soil in the field and |
| | | | | | | | drench surrounding beds of infested |
| | | | | | | | areas with copper oxychloride |
| | | | | | | | (0.2%). Care should be taken to |
| | | | | | | | dispose the removed plants far from |
| | | | | | | | the cultivated area or destroyed by |
| | | | | | | | burning. |
| | | | | | | | Leaf spot |
| | | | | | | | Spray Bordeaux mixture (1%) or |
| | | | | | | | mancozeb (0.2%) or carbendazim |
| | | | | | | | (0.2%) when the initial symptoms |
| | | | | | | | appear. Care should be taken that |
| | | | | | | | the spray solution should reach |
| | | | | | | | lower surface of the leaves also. |
| | | | | | | | Leaf roller and shoot borer |

| | | | | | | | Prune and destroy freshly infested pseudostems and spray neem oil (0.5%) at 21 days interval |
|----------|------------|---|--|-----|--|-----|--|
| Turmeric | Vegetative | Andhra Pradesh, Telangana, Tamil Nadu, Odisha | Leaf roller (Udaspes folus) Shoot borer (Conogethes punctiferalis) | Low | Rhizome rot (Pythium aphanidermatum) Leaf spot (Colletotrichum capsici) | Low | Rhizome rot Once noticed in the field, the beds should be drenched with copper oxychloride (0.2%) or metalaxyl - mancozeb (0.125%). Leaf spot Spray carbendazim or mancozeb (0.2%) or copper oxychloride (0.2%). Leaf roller and shoot borer Spray neem oil (0.5%) at 21 days interval |
| Nutmeg | Bearing | Kerala | | | Leaf fall and fruit rot (Diplodia natalensis and Phytophthora sp.) | Low | Leaf fall and fruit rot In endemic regions, spray Bordeaux mixture (1%) covering both foliage and fruits as a prophylactic measure. |