

CONTENTS

1. Introduction, Economic classification of Insects
2. Study of insect pests (Distribution, host range, biology, Nature of damage and management) in horticultural crops. Tropical Fruits: Mango: Hoppers, red banded caterpillar, nut weevil, stem borer, leaf webber, mealy bug, oriental fruit fly, leaf gall midges, thrips.
3. Guava: Tea mosquito bug, fruit fly, fruit borer, mealybug, bark eating caterpillar.
4. Sapota: Leaf webber, bud borer, fruit fly., seed borer Ber: Ber fruit fly, fruit borer.
5. Banana: Rhizome weevil, pseudostem borer, aphid. Papaya: Mealy bug, spiralling whitefly.
6. Pomegranate: Pomegranate butterfly, fruit borer, fruit sucking moths
7. Wood apple: Castor shoot and fruit borer, Custard apple: Mealybug, Tamarind: Fruit borer
8. Subtropical Fruits: Grapevine: Flea beetle, thrips, stem girdler, mealy bug, stem borer, 2 spotted spider mite.
9. Citrus: Citrus butterfly, Fruit sucking moths, citrus leaf miner, psylla, white fly, black fly, mangu mite.
10. Litchi: Fruit borer, leaf miner, rust mite
11. Temperate Fruits: Apple: Sanjose scale, woolly aphid, cottony cushion scale, codling moth, tent caterpillar, gypsy moth, European red mite. Peach: Leaf curl aphid, borer. Plum weevil, Apricot chalcid.
12. Plantation Crops: Cashew: Cashew shoot and root borer, shoot and blossom webber, tea mosquito bug, thrips, leaf miner, fruit borer.
13. Coconut & Oil palm: Black headed caterpillar, rhinoceros beetle, red palm weevil, Eriophyid mite, coconut scale.
14. Tea: Tea mosquito bug, thrips, mite complex (red spider mite, yellow mite, pink mite, purple mite, scarlet mite). Coffee: Green scales, white borer, red borer, shot hole borer, berry borer.
15. Arecanut: Scales, mites, thrips, nymphalid butterfly. Cocoa: Tea mosquito bug, chaffer Rubber: Bark caterpillar, scales beetles
16. Medicinal and Aromatic Plants. Cinchona: Root grub, bugs. Neem: Root grub, slug caterpillar, mired bug, mealy bug, tea mosquito bug. Crotalaria: Sun hemp hairy caterpillar
17. Cinnamon: Leaf eating caterpillar, Jumping bug. Camphor: Leaf roller, mealy bug, scales. Mint: Leaf roller, hairy caterpillars, termites, pyralid moth. Datura: Spotted borer, thrips
18. Opium: Cutworm, capsule borer, weevil. Belladonna: Cut worm, potato beetle, flea beetle. Dioscorea: Aphids, red spider mites.
19. Pests of Stored Products. Tamarind beetle, Cigarette beetle, Lesser grain borer, Khapra beetle, Drug store beetle, Dried fruit moth, sweet potato weevil, potato tuber moth, red flour beetle, rice moth, Indian meal moth, Dried current moth, Tobacco moth, dried fruit beetle, saw toothed beetle.
20. Insecticide residues problem in fruit, plantation, medicinal and aromatic plants and their tolerance limits.