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: 15.12.2016 – 21.12.2016

			Major Insec	t Pests	Major Plant D	iseases	Other Pests	
Стор	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	(a) Bearing	Idukki,	Pollu beetle	Low	Stunt disease	Low	Nematodes	Field:
	stage	Kozhikode,	(Lanka		(Cucumber		(Radopholus	Stunt disease
		Wayanad	ramakrishnai)		mosaic virus,		similis,	Regular monitoring. Remove
	(b) Nursery	(Kerala),	Mealybug	Low	Piper yellow		Meloidogyne	infected vines and destroy by
		Kodagu	(Planococcus		mottle virus)		incognita)	burning or burying deep in soil.
		(Karnataka),	sp., Ferrisia		Slow decline	Low	(Nursery)	Control the vector (mealy bugs) by
		Tamil Nadu	virgata)		(Meloidogyne			drenching neem oil (0.5%)
			(Nursery)		incognita.,			Slow decline
					Radopholus similis)			Remove and destroy severely
					Anthracnose	Low		affected vines. Apply neem cake @
					(Colletotrichum			500g/vine and biocontrol agents
					gloeosporioides)			like Pochonia chlamydosporia or

					Anthracnose (Colletotrichum gloeosporioides) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery)	Low Low to Medium	Trichoderma harzianum @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. Anthracnose Spray Bordeaux mixture (1%) or mancozeb (0.1%). Pollu beetle Spray neem oil (0.5%) 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 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 Spray neem oil (0.5%), once infestation is noticed. Nematodes Apply Pochonia chlamydosporia @ 1g/bag.
Cardamom	Harvesting	Idukki, Wayanad (Kerala), Kodagu (Karnataka)	Shoot borer (Conogethes punctiferalis) Thrips (Sciothrips	Low	Leaf blight (Colletotrichum gloeosporioides) Katte/Mosaic (Cardamom	Medium	Leaf blight Maintain optimum shade level by providing 40-60% filtered light. Spray Bordeaux mixture (1%) @ 0.5-1 litre/plant.

			agridam ami)	moggie vinus)		Votto/Mossia
			cardamomi)	mosaic virus)	T	Katte/ Mosaic
				Chlorotic streak	Low	Prompt inspection of plantation,
				(Banana bract		detection and rouging of virus
				mosaic virus)		sources (infected plants/
						volunteers) to reduce re-infection.
						The removed plants 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 and thrips
						Spray quinalphos (0.075%).
Vanilla	Harvesting	Karnataka		Leaf spot/Leaf	Low	Premature yellowing and bean
	8			rot/Bean		shedding
				shedding		Provide 50% shade in the
				(Colletotrichum		plantation.
				vanillae)		Spray Bordeaux mixture (1%) at
				Stem rot	Low	15-20 days interval.
				(Fusarium		Stem rot
				oxysporum f. sp.		Remove and destroy infected plant
				vanillae)		parts.
				Viral diseases	Low	Apply Trichoderma harzianum and
				(Bean common		Pseudomonas fluorescens (cfu 10 ⁸)
				mosaic virus,		50 g per vine.
				Bean yellow		Viral diseases
				mosaic virus,		Regular inspection and removal of
				Cucumber mosaic		infected plants. The removed

			virus, Cymbidiun mosaic virus)	n	plants may be burnt or buried deep in soil. Control of vector (aphids) may be undertaken by spraying neem oil (0.5%).
Ginger	Rhizome development and bulking	Kerala, Karnataka, Tamil Nadu	Leaf spot (Phyllosticta zingiberi)	Low	Leaf spot Spray Bordeaux mixture (1%) when the initial symptoms appear. Care should be taken that the spray solution should reach lower surface of the leaves also.
Turmeric	Rhizome development and bulking	Kerala, Tamil Nadu, Andhra Pradesh, Telangana	Leaf spot (Colletotrichum capsici)	Medium	Leaf spot Spray Bordeaux mixture (1%).