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: 10.11.2016 – 16.11.2016

			Major Insec	t Pests	Major Plant D	iseases	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	(a) Bearing	Idukki,	Leaf gall thrips	Low	Stunt disease	Low	Nematodes	Field:
	stage	Kozhikode,	(Liothrips		(Cucumber		(Radopholus	Stunt disease
		Wayanad	karnyi)		mosaic virus,		similis,	Regular monitoring. Remove infected
	(b) Nursery	(Kerala),	Pollu beetle	Low	Piper yellow		Meloidogyne	vines and destroy by burning or
		Kodagu	(Lanka		mottle virus)		incognita)	burying deep in soil. Control the
		(Karnataka),	ramakrishnai)		Slow decline	Low	(Nursery)	vector (mealy bugs) by drenching
		Tamil Nadu	Mealybug	Low	(Meloidogyne			chlorpyrifos (0.075%).
			(Planococcus		incognita., Radopholus similis)			Slow decline
			sp., Ferrisia		Anthracnose	Madium		Remove and destroy severely affected
			virgata)		(Colletotrichum	Medium		vines. Drench the vines with carbosulfan (0.1%). Along with
			(Nursery)		gloeosporioides)			carbosulfan (0.1%). Along with nematicide application, the basins may
					Anthracnose	Low		be drenched with either copper
					(Colletotrichum	Low		oxychloride (0.2%) or potassium
					gloeosporioides)			phosphonate (0.3%) or metalaxyl-
					(Nursery)			mancozeb (0.125%). Alternatively,
					Basal wilt	Low		biocontrol agents like Pochonia
					(Sclerotium			chlamydosporia or Trichoderma
					rolfsii)			harzianum @ 50 g/vine may also be
					(Nursery)			applied. Ensure sufficient soil moisture
					Viral infection	Low to		at the time of nematicide application.
					(Nursery)	Medium		Anthracnose
								Spray Bordeaux mixture (1%) or
								carbendazim - mancozeb (0.1%).

Cardamom	Capsule	Idukki,	Shoot borer	Medium	Leaf blight	Medium	Leaf gall thrips Spray dimethoate (0.05%) during emergence of new flushes on young vines. Pollu beetle Spray quinalphos (0.05%). Nursery: Anthracnose Spray Bordeaux mixture (1%) alternating with carbendazim (0.1%). 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 dimethoate (0.05%) whenever infestation is noticed. Mealy bug Spray dimethoate (0.05%), once infestation is noticed. Nematodes Apply carbosulfan (0.1%) @ 50 ml/bag. Shoot borer
Caruamom	maturation and harvesting	Wayanad (Kerala), Kodagu (Karnataka)	(Conogethes punctiferalis) Thrips (Sciothrips cardamomi)	Low	(Colletotrichum gloeosporioides) Katte/Mosaic (Cardamom mosaic virus) Chlorotic streak	Low	Spray quinalphos (0.075%). Thrips Under Karnataka conditions, spray Fipronil (0.005%) or Spinosad (0.0135%). Leaf blight

	1		1 /2	.	
			(Banana bract		Maintain optimum shade level by
			mosaic virus)		providing 40-60% filtered light.
					Spray Bordeaux mixture (1%) @ 0.5-1
					litre/plant or carbendazim - mancozeb
					(0.1%) or carbendazim $(0.2%)$.
					Katte/ Mosaic
					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.
					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.
Vanilla	Bean	Karnataka	Premature	Medium	Premature yellowing and bean
v aiiiia	maturing	Karnataka		and	shedding
	maturing		bean shedding		Provide 50% shade in the plantation.
			(Colletotrichu	9	Spray carbendazim – mancozeb
			vanillae)		(0.25%) at $15 - 20$ days interval.
			Viral diseases	Low	Viral diseases
					Regular inspection and removal of
			`	irus,	infected plants. The removed plants
				· ·	may be burnt or buried deep in soil.
			-	llow	
				irus,	Control of vector (aphids) may be
			Cucumber mo		undertaken by spraying dimethoate
			virus, Cymbia	uum	(0.05%).
			mosaic virus)		

Ginger	Rhizome	Kerala,	Shoot borer	High	Leaf spot	Medium	Leaf spot
_	development	Karnataka,	(Conogethes		(Phyllosticta		Spray Bordeaux mixture (1%) or
	and bulking	Tamil Nadu	punctiferalis)		zingiberi)		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. Shoot borer Prune and destroy freshly infested pseudostems and spray malathion
							(0.1%).
Turmeric	Rhizome	Kerala,	Shoot borer	High	Leaf spot	Medium	Leaf spot
	development	Tamil Nadu,	(Conogethes		(Colletotrichum		Spray carbendazim or mancozeb
	and bulking	Andhra	punctiferalis)		capsici)		(0.2%) or copper oxychloride $(0.2%)$.
		Pradesh,					Shoot borer
		Telangana					Spray malathion (0.1%) or lamdacyhalothrin (0.0125%).