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: 21.12.2018 - 27.12.2018

Crop	Crop Stage	Location (with GPS)	Major Insect Pests		Major Plant Diseases		Other Deste	
			Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Mediu m & Severe)	Other Pests (Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Black pepper	Nursery/ Bearing stage	Idukki. Kozhikode, Wayanad (Kerala), Kodagu (Karnataka) ,Tamil Nadu	Scale insects (Protopulvinar ia longivalvata, Lepidosaphes piperis) (Field) Root mealybug	Low	Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita, Radopholus	Low	Nematodes (Radopholus similis, Meloidogyn e 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
			(Planococcus sp.) (Field) Pollu beetle (Lanka ramkrishnai) (Field)	Medium	similis) Anthracnose (Colletotrichum spp.) (Nursery) Basal wilt (Sclerotium	Low Low		affected vines. Apply neem cake @ 500g/vine and biocontrol agents like <i>Pochonia chlamydosporia</i> or <i>Trichoderma harzianum</i> @ 50 g/vine and metalaxyl-mancozeb (0.125%)
	ξ		Mealybug (Planococcus sp., Ferrisia virgata) (Nursery) Scale insect	Low	rolfsii) (Nursery) Viral infection (Nursery)	Low		may also be applied. Scale insects Spray neem oil (0.5%), once infestation is noticed. Root mealybug Drench neem oil (0.5%), once

			(Protopulvinar ia longivalvata) (Nursery)				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
Condomon	II.						@ 1g/bag.
Cardamom	Harvesting	Idukki, Wayanad (Kerala),	Thrips (Sciothrips cardamomi)	Low	Leaf blight (Colletotrichum spp.)	Medium	Leaf blight Maintain optimum shade level by providing 40-60% filtered light.
		Kodagu (Karnataka)	Shoot borer (Conogethes punctiferalis)	Medium	Katte/Mosaic (Cardamom mosaic virus)	Low	Katte/ Mosaic Prompt inspection of plantation, detection and rouging of virus

			Chlorotic	Low	sources (infected plants/
8				LOW	volunteers) to reduce re-
*			streak		
	. ,		(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
2					Prompt inspection of plantation,
7 7 5					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	Premature yellowing and bean
	maturing/			yellowing and		shedding
	Harvesting			bean shedding		Provide 50% shade in the
	0			(Colletotrichum		plantation.
	×			vanillae)		Spray carbendazim – mancozeb
				Root and stem	Low	(0.25%) at $15 - 20$ days interval.
				rot		Root and stem rot
				(Fusarium		Soil drenching with copper
				oxysporum f.sp.		oxychloride @ 0.25% followed
				vanillae)		by spray with carbendazim
				Viral diseases	Low	(0.25%) at monthly interval.
				(Bean common		Viral diseases
				mosaic virus,		Regular inspection and removal
				Bean yellow		of infected plants. The removed
				mosaic virus,		plants may be burnt or buried
				Cucumber	**	deep in soil. Control of vector
				mosaic virus,		(aphids) may be undertaken by
			*	Cymbidium		spraying neem oil (0.5%).
				mosaic virus)		

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