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: 18.01.2019 - 24.01.2019

Dutet 2010	019 – 24.01.2019		Major Insect	Pests	Major Plant D		Other Pests	
Crop	Crop Stage	Location (with GPS)	Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Mediu m & Severe)	(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, Unaspis sp.) (Field) Root mealybug (Planococcus sp.) (Field) Pollu beetle (Lanka ramkrishnai) (Field) Mealybug (Planococcus sp., Ferrisia virgata) (Nursery)	Medium Medium Low	Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita, Radopholus similis) Anthracnose (Colletotrichum spp.) (Nursery) Basal wilt (Sclerotium rolfsii) (Nursery) Viral infection (Nursery)	Low Low 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 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. Scale insects Spray neem oil (0.5%), once infestation is noticed. Root mealybug Drench neem oil (0.5%), once

							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
							@ 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/
			streak		volunteers) to reduce re-
8	3, 1		(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
					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
					Spray quinalphos (0.075%).
					Thrips
					Spray quinalphos 25%EC
					(0.075%) after undertaking
					thrashing.

Vanilla	Bean	Karnataka			Premature	Medium	Premature yellowing and bean
	maturing/	T KAT TI ACCUTE			yellowing and	iviculum	shedding
	Harvesting				bean shedding		Provide 50% shade in the
	The vesting				(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)		
Ginger &	Rhizome	Karnataka,	Rhizome scale	Low			Rhizome scale
Turmeric		Kerala	(Aspidiella				Harvest the rhizomes on time,
			hartii)		-	9	discard severely infested
							rhizomes. Store seed rhizomes in
						4	sawdust + Strychnos nuxvomica
							leaves (dried) after seed
							treatment

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