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: 14.12.2017 - 20.12.2017

			Major Insec	et Pests	Major Plant I	Diseases	Oth on Doots	
Crop	Crop Stage	Location (with GPS)	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	Nursery/	Idukki,	Scale insects	Low	Stunt disease	Low	Nematodes	Field:
pepper	Bearing stage	Kozhikode,	(Protopulvinar	-	(Cucumber		(Radopholus	Stunt disease
		Wayanad	ia		mosaic virus,		similis,	Regular monitoring. Remove
		(Kerala),	longivalvata,		Piper yellow		Meloidogyn	infected vines and destroy by
		Kodagu	Lepidosaphes		mottle virus)		e incognita)	burning or burying deep in soil.
		(Karnataka)	piperis)		Slow decline	Medium	(Nursery)	Control the vector (mealy bugs)
		,Tamil	(Field)		(Meloidogyne		10 10 100	by drenching neem oil (0.5%).
		Nadu	Root	Medium	incognita,			Slow decline
			mealybug		Radopholus			Remove and destroy severely
			(Planococcus	8	similis)			affected vines. Apply neem cake
			sp.) (Field)		Anthracnose	Low		@ 500g/vine and biocontrol
			Pollu beetle	Medium	(Colletotrichum			agents like Pochonia
			(Lanka		spp.)		9	chlamydosporia or Trichoderma
			ramkrishnai)		(Nursery)		: : : : : : : : : : : : : : : : : : :	harzianum @ 50 g/vine and
			(Field)		Basal wilt	Low		metalaxyl-mancozeb (0.125%)
			Mealybug	Low	(Sclerotium			may also be applied.
		n	(Planococcus		rolfsii)			Scale insects
	- a		sp., Ferrisia		(Nursery) Viral infection			Spray neem oil (0.5%), once
			virgata)	,	120-120	Low		infestation is noticed.
			(Nursery)	8	(Nursery)		a	Root mealybug
			Scale insect	Low				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
	P						Apply <i>Pochonia chlamydosporia</i> @ 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-
		(Banana bract		infection. The removed plants
		mosaic virus)		may be burnt or buried deep in
				soil. Removal of natural hosts
	2	-		like Colocasia and Caladium to
1			*(1	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
			9 1	soil.
				Shoot borer
		,		Spray quinalphos (0.075%).
	· ·			Thrips
				Spray quinalphos 25%EC
				(0.075%) after undertaking
				thrashing.

Vanilla	Bean maturing/ Harvesting	Karnataka		Premature yellowing and bean shedding (Colletotrichum	Medium		Premature yellowing and bean shedding Provide 50% shade in the plantation.
				vanillae)	T	15.7	Spray carbendazim – mancozeb
				Root and stem	Low		(0.25%) at $15 - 20$ days interval.
				rot		1 112	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
5				mosaic virus,			plants may be burnt or buried
				Cucumber		100110	deep in soil. Control of vector
				mosaic virus,		63.614	(aphids) may be undertaken by
	1			Cymbidium			spraying neem oil (0.5%).
				mosaic virus)			

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