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: 08.03.2019 – 14.03.2019

		Location (with GPS)	Major Insect Pests		Major Plant Diseases		Other Pests		
Сгор	Crop Stage		Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Mediu m & Severe)	(Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories	
Black	Nursery/	Idukki,	Scale insects	Medium	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	High	(Nursery)	Control the vector (mealy bugs)	
		,Tamil	Unaspis sp.)		(Meloidogyne			by drenching neem oil (0.5%).	
		Nadu	(Field)		incognita,			Slow decline	
			Root	Medium	Radopholus			Remove and destroy severely	
			mealybug		similis)			affected vines. Apply neem cake	
			(Planococcus		Anthracnose	Low		@ 500g/vine and biocontrol	
			sp.) (Field)		(Colletotrichum			agents like Pochonia	
			Pollu beetle	Low	spp.)			chlamydosporia or Trichoderma	
			(Lanka		(Nursery)			harzianum @ 50 g/vine and	
			ramkrishnai)		Basal wilt Low			metalaxyl-mancozeb (0.125%)	
			(Field)		(Sclerotium			may also be applied.	
			Mealybug	Medium	-	rolfsii)		Scale insects	
			(Planococcus		(Nursery)			Spray neem oil (0.5%), once	
			sp., Ferrisia		Viral infection Medium			infestation is noticed.	
			virgata)		(Nursery)	'		Root mealybug	
			(Nursery)					Drench neem oil (0.5%), once	

Г		
		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	Flowering	Idukki,	Thrips	Medium	Leaf blight	Medium	Leaf blight
		Wayanad	(Sciothrips		(Colletotrichum		Maintain optimum shade level by
		(Kerala),	cardamomi)		spp.)		providing 40-60% filtered light.
		Kodagu	Shoot borer	Low	Katte/Mosaic	Medium	Katte/ Mosaic
		(Karnataka)	(Conogethes		(Cardamom		Prompt inspection of plantation,
			punctiferalis)		mosaic virus)		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
							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	Duomot	une vellering and been
vaiiiia		Karnataka				Medium		ure yellowing and bean
	maturing/				yellowing and		sheddin	
	Harvesting				bean shedding			50% shade in the
					(Colletotrichum		plantation	
					vanillae)		1 2	arbendazim – mancozeb
					Root and stem	Low		at $15 - 20$ days interval.
					rot		Root an	d stem rot
					(Fusarium		Soil d	renching with copper
					oxysporum f.sp.		oxychlo	ride @ 0.25% followed
					vanillae)		by spr	ay with carbendazim
					Viral diseases	Low	(0.25%)	at monthly interval.
					(Bean common		Viral di	seases
					mosaic virus,		Regular	inspection and removal
					Bean yellow			ted plants. The removed
					mosaic virus,			nay be burnt or buried
					Cucumber			soil. Control of vector
					mosaic virus,			may be undertaken by
					Cymbidium		\ ± /	g neem oil (0.5%).
					mosaic virus)		Spr. w, 2	, 1100111 011 (010 /0/)
Ginger &	Rhizome	Karnataka,	Rhizome scale	Medium	Dry rot	Medium	Rhizom	e scale
Turmeric		Kerala	(Aspidiella		(Macrophomin		Harvest	the rhizomes on time,
		Tioraia	hartii)		a phaseolina)		discard	severely infested
					a pressestmen)			s. Store seed rhizomes in
								+ Strychnos nuxvomica
							leaves	(dried) after seed
							treatmer	` '
							Dry rot	
							·	eatment with Mancozeb
							(0.25%)	
							effective	2.

(Nodal Officer) C.M. Senthil humen Name: C.M. Senthil human Designation: Senior Scientist (Agrl. Ento.)

6

Anin orla

Director/Head of Institution