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

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		Location (with GPS)	Major Insect Pests		Major Plant Diseases		Other Pests	
Crop	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 pepper	Nursery/ Bearing stage	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka) ,Tamil Nadu	Scale insects (Protopulvinar ia longivalvata, Lepidosaphes piperis, Unaspis sp.) (Field)	Medium	Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita,	Medium	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
			Root mealybug (Planococcus sp.) (Field) Pollu beetle (Lanka ramakrishnai)	Medium	Radopholus similis) Anthracnose (Colletotrichum spp.) (Nursery) Basal wilt	Low		Remove and destroy severely 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%)
			(Field) Mealybug (Planococcus sp., Ferrisia virgata) (Nursery)	Medium	(Sclerotium rolfsii) (Nursery) Viral infection (Nursery) Foot rot	Medium Medium		may also be applied. Scale insects Spray neem oil (0.5%), once infestation is noticed. Root mealybug Drench neem oil (0.5%), once

2	(Nursery & Field) Phytophthora	infestation is noticed. Pollu beetle Spray neem oil (0.5%), once infestation is noticed.
	capsici	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. Foot rot Removal and destruction of dead vines along with root system
		from the garden is essential as this reduces the buildup of inoculums Drench the vines at a radius of 45-50 cm with copper

2	* *	oxychloride (0.2%) @ 5-10 litres/vine after the receipt of monsoon showers (May-June). A foliar spray with Bordeaux mixture (1%) is also to be given. Drenching and spraying need to be repeated during August-September. A third round of drenching may be given during October if the monsoon is prolonged. Apply <i>Trichoderma harzianum</i> around the base of the vine @ 50 g/vine (10 ¹⁰ cfu/g) during the monsoon period (May-June).
		Nematodes Apply Pochonia chlamydosporia @ 1g/bag.

Cardamom	Flowering	Idukki,	Thrips	Low	Leaf blight	Medium		Leaf blight
Cardamom	Flowering	Wayanad	(Sciothrips	LOW	(Colletotrichum	Wicdiani		Maintain optimum shade level by
		(Kerala),	cardamomi)		spp.)			providing 40-60% filtered light.
		Kodagu	Shoot borer	Low	Katte/Mosaic	Medium		Katte/ Mosaic
		(Karnataka)	(Conogethes	LOW	(Cardamom	Micarani		Prompt inspection of plantation,
		(Ixaiiiataka)	punctiferalis)		mosaic virus)			detection and rouging of virus
			punctiferatis)		Chlorotic	Low		sources (infected plants/
					streak	Low		volunteers) to reduce re-
					(Banana bract			infection. The removed plants
					mosaic virus)			may be burnt or buried deep in
					mosaic viras)		,	soil. Removal of natural hosts
								like <i>Colocasia</i> and <i>Caladium</i> 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 Ginger	Vegetative	Karnataka Karnataka,	Rhizome scale	Low	Root and stem rot (Fusarium oxysporum f.sp. vanillae) Viral diseases (Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus)	Low		Root and stem rot Soil drenching with copper oxychloride @ 0.25% followed by spray with carbendazim (0.25%) at monthly interval. Viral diseases Regular inspection and removal of infected plants. The removed plants may be burnt or buried deep in soil. Control of vector (aphids) may be undertaken by spraying neem oil (0.5%).
omger .	Tranting	Kerala .	(Aspidiella hartii)	Low	Soft rot (Pythium aphanidermatu m, P. myriotylum)	Low	Nematodes Root Knot (Meloidogyn e spp.), Burrowing nematode (Radopholus similis) and Lesion nematode (Pratylench us sp.)	Rhizome scale Treat the seed rhizomes with quinalphos (0.075%) for 20-30 minutes before planting. Soft rot Use disease free seed rhizomes for planting. Select well drained soil for planting and provide adequate drainage to prevent water stagnation. Treat seed rhizomes with mancozeb (0.3%) or meatalaxyl-mancozeb (0.125%) for 30 minutes before planting Nematodes In root knot nematode endemic regions, IISR Mahima may be cultivated. Apply Pochonia

Turmeric	Planting	Andhra Pradesh, Telangana, Tamil Nadu,	Rhizome scale (Aspidiella hartii)	Low	Rhizome rot (Pythium aphanidermatu m)	Low	Nematodes Root Knot (Meloidogyn e spp.), Burrowing	chlamydosporia @ 20 g/bed (10 ⁶ cfu/g) at the time of planting. Rhizome scale Treat the seed rhizomes with quinalphos (0.075%) for 20-30 minutes before planting. Rhizome rot
		Odisha	-				nematode (Radopholus similis) and Lesion nematode (Pratylench us sp.)	Use disease free seed rhizomes for planting. Select well drained soil for planting and provide adequate drainage to prevent water stagnation. Treat seed rhizomes with mancozeb (0.3%) for 30 minutes before planting Nematodes In root knot nematode endemic regions, IISR Pragati may be cultivated. Apply <i>Pochonia chlamydosporia</i> @ 20 g/bed (10 ⁶ cfu/g) at the time of planting.

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