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 Insee	et Pests	Major Plant I	Diseases	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) (Field) Root mealybug (Planococcus sp.) (Field) Pollu beetle (Lanka ramkrishnai) (Field) Mealybug (Planococcus sp., Ferrisia virgata) (Nursery)	Low 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 Medium 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 <i>Pochonia</i> <i>chlamydosporia</i> or <i>Trichoderma</i> <i>harzianum</i> @ 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
			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 Apply <i>Pochonia chlamydosporia</i> <i>@</i> 1g/bag.
Cardamom	Harvesting	Idukki, Wayanad (Kerala),	Thrips (Sciothrips cardamomi)	Low	Leaf blight (<i>Colletotrichum</i> 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

	1		Chlorotic	Low	No second and a second s	sources (infected plants/
				LOW		
	40 40		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
					× .	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
					1	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 vanillae)MediumRoot and stem rot (Fusarium 	Premature yellowing and beansheddingProvide 50% shade in theplantation.Spray carbendazim – mancozeb(0.25%) at 15 – 20 days interval.Root and stem rotSoil drenching with copperoxychloride @ 0.25% followedby spray with carbendazim(0.25%) at monthly interval.Viral diseasesRegular inspection and remova
			mosaic virus. Bean yellow mosaic virus. Cucumber mosaic virus. Cymbidium mosaic virus)	of infected plants. The removed plants may be burnt or buried deep in soil. Control of vector (aphids) may be undertaken b spraying neem oil (0.5%).
(N Ni Do	odal Officer) C ame: C·M·Seo esignation: Seo TCA	H-Jenthill Kurver thill huroar Dior Scientist (Agrl. Ento.) R-115R, hozbihode		निदेशक Director भारतीय मसाला फसल अनुसंधान संस्थान Incluret Millea of films in files and कालिकट Calicut-673 012 केरल Kerala, भारत India