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: 11.05.2017 to 17.05.2017

			Major Insect	t Pests	Major Plant D	iseases	Other Pests	
Сгор	Crop Stage	Location (with GPS)	Name (Scientific Name)	Status (Low, Medium & Severe)	Name (Scientific Name)	Status (Low, Medium & Severe)	(Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Black pepper N	Nursery	Idukki,	Mealybug	Low	Stunt disease	Low to	Physiological	Field:
	Vegetative	Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu	(<i>Planococcus</i> sp., <i>Ferrisia</i> <i>virgata</i>) (Nursery) Scale insect (<i>Protopulvinari</i> <i>a longivalvata</i>) (Nursery)	Low	(Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita., Radopholus similis) Anthracnose (Colletotrichum gloeosporioides) (Nursery) Viral infection (Nursery)	medium Medium Low to Medium	wilting (Field) Nematodes (Radopholus similis, Meloidogyne incognita) (Nursery)	Stunt diseaseRegularmonitoring.Removeinfected vines and destroy byburning or burying deep in soil.Control the vector (mealy bugs)by drenching neem oil (0.5%).Slow declineRemove and destroy severelyaffected vines.Apply neem cake@ 500g/vine and biocontrolagentslikePochoniachlamydosporia or Trichodermaharzianum@ 50 g/vine andmetalaxyl-mancozeb(0.125%)may also be applied.Physiological wilting:Basin irrigation to the vines maybe given @ 40 litres per vine for11-15 years age group and 30litres for vines aged between 5 -

Cardamom	Vegetative	Idukki, Wayanad (Kerala), Kodagu	Thrips (Sciothrips cardamomi)	Low	Leaf blight (Colletotrichum gloeosporioides) Katte/Mosaic	Medium	Nursery: Anthracnose Spray 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 insect Spray neem oil (0.5%), once infestation is noticed. Nematodes Apply Pochonia chlamydosporia @ 1g/bag.Leaf blight Maintain optimum shade level by providing 40-60% filtered light. Katte/ Mosaic
		(Karnataka)			(Cardamom mosaic virus) Chlorotic streak (Banana bract mosaic virus)	Low	 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. 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. Thrips Spray quinalphos (0.075%).
Vanilla	Vegetative	Karnataka	Leafspot(Colletotrichumvanillae)Stem rot(Fusariumoxysporumf. sp.vanillae)	Low Low		Leaf spot Provide 50% shade in the plantation. Spray Bordeaux mixture (1%) at 15 – 20 days interval. Stem rot Remove and destroy infected plant
			Viral diseases (Bean common mosaic virus, Bean yellow mosaic virus, Cucumber mosaic virus, Cymbidium mosaic virus)	Low		parts. Apply <i>Trichoderma</i> <i>harzianum</i> and <i>Pseudomonas</i> <i>fluorescens</i> (cfu 10 ⁸) 50 g per vine. 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%).
Nutmeg	Bearing	Kerala			Physiological wilting (Field)	Physiological wilting (Field) Provide irrigation to the trees. The trees may be adequately shaded to prevent sun scorching.