ICAR-National Research Centre for Integrated Pest Management, Pusa, New Delhi Weekly Status Report on Insects Pests & Diseases of Crops

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			Major Insect Pests		Major Plant Diseases		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	Nursery/ Vegetative/ Spike formation	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka), Tamil Nadu	Mealybug (Planococcus sp., Ferrisia virgata) (Nursery) Scale insect (Protopulvinari a longivalvata) (Nursery)	Low	Stunt disease (Cucumber mosaic virus, Piper yellow mottle virus) Slow decline (Meloidogyne incognita., Radopholus similis) Foliar infection/Foot rot (Phytophthora spp.) Anthracnose (Colletotrichum gloeosporioides) Anthracnose (Colletotrichum gloeosporioides)	Low Low Low	Nematodes (Radopholus similis, Meloidogyne 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 Pochonia chlamydosporia or Trichoderma harzianum @ 50 g/vine and metalaxyl-mancozeb (0.125%) may also be applied. Foliar infection/Foot rot Follow strict phytosanitation. After the receipt of few monsoon showers, all the vines are to be drenched at a radius of 45-50 cm with copper oxychloride 0.2% @ 5-10	
					(Nursery)			litres/vine. A foliar spray with	

					Viral infection (Nursery)	Low	Bordeaux mixture 1% is also to be given. Alternatively, drenching and spraying with potassium phosphonate 0.3% @ 5-10 litres/
							vine (drench) or potassium phosphonate 0.3% @ 5-10 litres/ vine (drench) also may to be given. Anthracnose
							Prophylactic spraying with Bordeaux mixture (1%) or carbendazim - mancozeb (0.1%).
							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
							(0.5%) whenever infestation is noticed. Mealy bug and scale insect Spray neem oil (0.5%), once
							infestation is noticed. Nematodes Apply Pochonia chlamydosporia @
Cardamom	Vegetative/ Panicle initiation/	Idukki, Wayanad (Kerala),	Thrips (Sciothrips cardamomi)	Medium	Leaf blight (Colletotrichum gloeosporioides)	Low	1g/bag. Leaf blight Maintain optimum shade level by providing 40-60% filtered light.
	Capsule formation	Kodagu (Karnataka)			Azhukal/Capsul e rot (Phytophthora nicotianae var.	Low	Ratte/ Mosaic Prompt inspection of plantation, detection and rouging of virus sources (infected plants/ volunteers)
					nicotianae and P. meadii)		to reduce re-infection. The removed plants may be burnt or buried deep

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			Katte/Mosaic	Low	in soil. Removal of natural hosts like
			(Cardamom		Colocasia and Caladium to destroy
			mosaic virus)		breeding sites and check population
			Chlorotic streak	Low	build-up of the vector.
			(Banana bract		Chlorotic streak
			mosaic virus)		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.
					Azhukal/Capsule rot
					Trashing and cleaning of the plant
					basin need to be carried out.
					Regulate thick shade. Prevent water
					logging by providing adequate
					drainage. Destroy disease affected
					portions and plant debris.
					Prophylactic sprays with Bordeaux
					mixture (1%). Alternatively, fosetyl-
					aluminium (0.2%) or potassium
					phosphonate (0.3%) can be used.
					Drench plant basin with copper
					oxychloride (0.2%).
					Thrips
					Spray quinalphos (0.075%) after
					undertaking thrashing.
Vanilla	Vegetative	Karnataka	Leaf spo	t Low	Leaf spot
v aiiiia	vegetative	Kamataka	(Colletotrichum	LOW	Provide 50% shade in the plantation.
			vanillae)		Spray Bordeaux mixture (1%) at 15
			Stem rot	Low	– 20 days interval.
			(Fusarium	LUW	Stem rot
			`		
			oxysporum f. sp	•	Remove and destroy infected plant
			vanillae)	Tana	parts. Apply Trichoderma
			Viral diseases	Low	harzianum and Pseudomonas

					(Bean common		fluorescens (ct	fu 10 ⁸) 50 g per vine.
					mosaic virus,		Viral diseases	, 01
					Bean yellow			ection and removal of
					mosaic virus,			s. The removed plants
					Cucumber			or buried deep in soil.
					mosaic virus,			ector (aphids) may be
					Cymbidium			y spraying neem oil
					mosaic virus)		(0.5%).	
Ginger	Vegetative	Karnataka,	Leaf roller	Low	Soft rot	Low	Soft rot	
		Kerala	(Udaspes folus)		(Pythium		Once disease	is observed in field,
			Shoot borer	Low	aphanidermatum		remove affect	ed clumps and drench
			(Conogethes		and P .			surrounding beds with
			punctiferalis)		myriotylum)		mancozeb (0	0.3%) or metalaxyl
					Bacterial wilt	Low	mancozeb (0.125%) or copper
					(Ralstonia		oxychloride (0).2%).
					solanaceraum)		Bacterial wilt	•
					Leaf spot	Medium	Confirm ident	tity of the disease by
					(Phyllosticta			After confirming as
					zingiberi)			affected clumps shall
								carefully without
								soil in the field and
								nding beds of infested
								copper oxychloride
							· · · · · · · · · · · · · · · · · · ·	should be taken to
								moved plants far from
								area or destroyed by
							burning.	
							Leaf spot	
							1 2	nux mixture (1%) or
							· ·	.2%) or carbendazim
								the initial symptoms
								should be taken that
								olution should reach
								of the leaves also.
							Leaf roller	

							Spray malathion (0.1%) at 21 days intervals. Shoot borer Prune and destroy freshly infested pseudostems and spray malathion (0.1%).
Turmeric	Vegetative	Andhra Pradesh, Telangana, Tamil Nadu, Odisha	Leaf roller (Udaspes folus)	Low	Rhizome rot (Pythium aphanidermatum)	Low	Rhizome rot Once noticed in the field, the beds should be drenched with copper oxychloride (0.2%) or metalaxyl - mancozeb (0.125%). Leaf roller Spray malathion (0.1%) at 21 days intervals.
Nutmeg	Bearing	Kerala			Leaf fall and fruit rot (Diplodia natalensis and Phytophthora sp.)	Low	Leaf fall and fruit rot In endemic regions, spray Bordeaux mixture (1%) covering both foliage and fruits as a prophylactic measure.