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 Insec	et Pests	Major Plant I	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
					(Colletotrichum gloeosporioides) Anthracnose			Follow strict phytosanitation. A the receipt of few monsoon show all the vines are to be drenched a radius of 45-50 cm with cop

					Viral infection	Low	Bordeaux mixture 1% is also to be
					(Nursery)	Low	given. Alternatively, drenching and
					(Transcry)		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
							noticed.
							Mealy bug and scale insect
							Spray neem oil (0.5%), once
							infestation is noticed.
							Nematodes
							Apply Pochonia chlamydosporia @
							1g/bag.
Cardamom	Vegetative/	Idukki,	Thrips	Medium	Leaf blight	Low	Leaf blight
	Panicle	Wayanad	(Sciothrips		(Colletotrichum		Maintain optimum shade level by
	initiation/	(Kerala),	cardamomi)		gloeosporioides)		providing 40-60% filtered light.
	Capsule	Kodagu			Azhukal/Capsul	Medium	Katte/ Mosaic
	formation	(Karnataka)			e rot		Prompt inspection of plantation,
					(Phytophthora		detection and rouging of virus
					nicotianae var.		sources (infected plants/ volunteers)
					nicotianae and		to reduce re-infection. The removed
					P. meadii)		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

				I	(P		0 (0.10% 70)
					(Bean common		fluorescens (cfu 10 ⁸) 50 g per vine.
					mosaic virus,		Viral diseases
					Bean yellow		Regular inspection and removal of
					mosaic virus,		infected plants. The removed plants
					Cucumber		may be burnt or buried deep in soil
					mosaic virus,		Control of vector (aphids) may be
					Cymbidium		undertaken by spraying neem oi
					mosaic virus)		(0.5%).
Ginger	Vegetative	Karnataka,	Leaf roller	Low	Soft rot	Medium	Soft rot
		Kerala	(Udaspes folus)		(Pythium		Once disease is observed in field
			Shoot borer	Medium	aphanidermatum		remove affected clumps and drench
			(Conogethes		and P .		affected and surrounding beds with
			punctiferalis)		myriotylum)		mancozeb (0.3%) or metalaxy
					Bacterial wilt	Medium	mancozeb (0.125%) or copper
					(Ralstonia		oxychloride (0.2%).
					solanaceraum)		Bacterial wilt
					Leaf spot	Medium	Confirm identity of the disease by
					(Phyllosticta		"ooze test". After confirming as
					zingiberi)		bacterial wilt, affected clumps shall
							be removed carefully withou
							spilling the soil in the field and
							drench surrounding beds of infested
							areas with copper oxychloride
							(0.2%). Care should be taken to
							dispose the removed plants far from
							the cultivated area or destroyed by
							burning.
							Leaf spot
							Spray Bordeaux mixture (1%) or
							mancozeb (0.2%) or carbendazim
							(0.2%) when the initial symptoms
							appear. Care should be taken that
							the spray solution should reach
							lower surface 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.