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

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Date: 22.06.2017 to 28.06.2017

			Major Insec	et 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	Nursery/	Idukki,	Mealybug	Low	Stunt disease	Low	Nematodes	Field:
	Vegetative	Kozhikode,	(Planococcus		(Cucumber		(Radopholus	Stunt disease
		Wayanad	sp., Ferrisia		mosaic virus,		similis,	Regular monitoring. Remove
		(Kerala),	virgata)		Piper yellow		Meloidogyne	infected vines and destroy by
		Kodagu	(Nursery)		mottle virus)	_	incognita)	burning or burying deep in soil.
		(Karnataka),	Scale insect	Low	Slow decline	Low	(Nursery)	Control the vector (mealy bugs)
		Tamil Nadu	(Protopulvinari		(Meloidogyne			by drenching neem oil (0.5%).
			a longivalvata)		incognita.,			Slow decline
			(Nursery)		Radopholus			Remove and destroy severely
					similis)	I ow		affected vines. Apply neem cake @ 500g/vine and biocontrol
					Foliar infection/Foot	Low		
					rot			agents like <i>Pochonia</i> chlamydosporia or <i>Trichoderma</i>
					(Phytophthora			harzianum @ 50 g/vine and
					spp.)			metalaxyl-mancozeb (0.125%)
					Anthracnose	Low		may also be applied.
					(Colletotrichum			Foliar infection/Foot rot
					gloeosporioides)			After the receipt of few monsoon
					Anthracnose	Low		showers, all the vines are to be

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					(Colletotrichum		drenched at a radius of 45-50 cm
					gloeosporioides)		with copper oxychloride 0.2% @
					(Nursery)		5-10 litres/vine. A foliar spray
					Viral infection	Low	with Bordeaux mixture 1% is also
					(Nursery)		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 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/Capsule	Low	Katte/ Mosaic
	formation	(Karnataka)			rot		Prompt inspection of plantation,

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		(Phytophthora		detection and rouging of virus
		<i>nicotianae</i> var.		sources (infected plants/
		nicotianae and		volunteers) to reduce re-infection.
		P. meadii)		The removed plants may be burnt
		Katte/Mosaic	Low	or buried deep in soil. Removal of
		(Cardamom		natural hosts like Colocasia and
		mosaic virus)		Caladium to destroy breeding sites
		Chlorotic streak	Low	and check population build-up of
		(Banana bract		the vector.
		mosaic virus)		Chlorotic streak
		ĺ		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%).
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Vanilla	Vegetative	Karnataka	Leaf	spot Low		Leaf spot
Valilla	Vegetative	Karnataka	(Colletotric	- I		Provide 50% shade in the
			vanillae)	ium		plantation. Spray Bordeaux
			Stem rot	Low		mixture (1%) at 15 – 20 days
			(Fusarium	Low		interval.
			oxysporum	f sn		Stem rot
			vanillae)	1. sp.		Remove and destroy infected plant
			Viral disease	ses Low		parts. Apply <i>Trichoderma</i>
				ommon		harzianum and Pseudomonas
			mosaic	virus,		fluorescens (cfu 10 ⁸) 50 g per
				yellow		vine.
			mosaic	virus,		Viral diseases
			Cucumber 1	· · · · · · · · · · · · · · · · · · ·		Regular inspection and removal of
			virus, Cymi			infected plants. The removed
			mosaic viru			plants may be burnt or buried deep
						in soil. Control of vector (aphids)
						may be undertaken by spraying
						neem oil (0.5%).
Ginger	Vegetative	Karnataka,	Soft rot	Low	Nematodes	Soft rot
		Kerala	(Pythium		Root knot	As prophylactic measures: Use
			aphaniderm	atum	(Meloidogyne	disease-free seed rhizomes for
			and	<i>P</i> .	spp.),	planting. Select well drained soil
			myriotylum))	Burrowing	for planting and provide adequate
			Leaf spot	Low	(Radopholus	drainage to prevent water
			(Phyllosticte	а	similis) and	stagnation. Treat seed rhizomes
			zingiberi)		Lesion	with mancozeb (0.3%) or
					(Pratylenchus	metalaxyl-mancozeb (0.125%) for
					spp.)	30 minutes before planting and
						drench at 30 and 60 days after
						planting.
						Nematodes
						As prophylactic measures: Use
						nematode-free healthy seed
						rhizomes for planting. In root knot
						nematode endemic regions, the

Turmeric	Vegetative	Andhra Pradesh, Telangana, Tamil Nadu, Odisha	Rhizome rot (Pythium aphanidermatum)	Low	Nematodes Root knot (Meloidogyne spp.), Burrowing (Radopholus similis) and Lesion (Pratylenchus spp.)	resistant variety IISR Mahima may be cultivated. The bioagent, <i>Pochonia chlamydosporia</i> may be incorporated in ginger beds (20 g/bed with 10 ⁶ cfu/g) at the time of planting. 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. Soft rot As prophylactic measures: 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 and drench at 30 and 60 days after planting. Nematodes As prophylactic measures: Use nematode-free healthy seed rhizomes for planting. In root knot nematode endemic regions, the resistant variety IISR Mahima
						nematode endemic regions, the

Nutmeg	Bearing	Kerala	Leaf fall and	Leaf fall and fruit rot
			fruit rot	In endemic regions, spray
			(Diplodia	Bordeaux mixture (1%) covering
			natalensis and	both foliage and fruits as a
			Phytophthora sp.)	prophylactic measure.