## 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: 30.05.2016 - 05.06.2016

			Major Insec	t Pests	Major Plant	Diseases	Other Pests	
Сгор	Crop Stage	<b>Location</b> (with GPS)	<b>Name</b> (Scientific Name)	Status (Low, Medium & Severe)	<b>Name</b> (Scientific Name)	Status (Low, Medium & Severe)	(Nematodes, Rat, etc.) (Scientific Name)	Pest Advisories
Black pepper	Vegetative	Idukki, Kozhikode, Wayanad (Kerala), Kodagu (Karnataka)	Scale insects (Lepidosaphes piperis, Marsipococcus marsupialis) Mealybug	Medium	Yellowing (due to slow decline) – Nematodes Stunt disease	Medium	Nematodes (Radopholus similis, Meloidogyne incognita)	Scale insects Clip off and destroy severely infested plant parts. Spray dimethoate (0.1%) after harvest. Repeat spraying after 21 days to control the infestation completely.
		(Itainataka)	(Planococcus sp., Ferrisia virgata)	Medium	(Cucumber mosaic virus, Piper yellow mottle virus)	Weddum		(Initiate control measures during early stages of pest infestation). <b>Mealy bug</b> Mealybug infestation on aerial portion can be controlled by
	Nursery				Foliar infection (due to Phytophthora capsici)	Low		portioncanbe controlledbysprayingdimethoate(0.1%)onaffected vines.YellowingMaintain adequate shade.Provide irrigation.Stunt diseaseRegularmonitoring.Regularmonitoring.Removeinfected vinesand destroy byburning orburying deep in soil.Control the vector (mealy bugs) by

	Foliar infection	Low to	drenching with chlorpyrifos (0.075%). Foliar infection due to <i>Phytophthora capsici</i> 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 litres/vine. A foliar spray with 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. Foliar infection due to
	due to	Medium	Phytophthora capsici
	Phytophthora	Wiedium	If foliar infection is noticed, spray
	capsici		Bordeaux mixture (1%) and drench
	(Nursery)		with copper oxychloride (0.2 %).
			Alternatively, metalaxyl 0.01%
			(1.25 g/litre) or potassium
			phosphonate 0.3% (3 ml/litre)
			could also be used.

Cardamom	Vegetative/	Kodagu	Shoot fly	Low	Leaf blight	Medium	Shoot fly
	Panicle	(Karnataka)	(Formosina		(Colletotrichum		Remove and destroy the affected
	initiation/		flavipes)		gloeosporioides)		shoots at ground level.
	Capsule						Spray quinalphos (0.05%).
	formation						Panicle/Shoot borer
							Spray quinalphos (0.075%)
							coinciding with emergence of
							panicles and new shoots.
							Thrips
							Under Karnataka conditions, spray
							Fipronil (0.005%) or Spinosad
							(0.0135%) after undertaking
							thrashing. Ensure irrigation after
							thrashing. <b>Leaf blight</b>
							Maintain optimum shade level by
							providing 40-60% filtered light.
		Kodagu	Panicle/Shoot	Low	Katte/Mosaic	Medium	Katte/ Mosaic
		(Karnataka)	borer	LOW	(Cardamom	Wiediuili	Prompt inspection of plantation,
		(Karnataka)	(Conogethes		mosaic virus)		detection and rouging of virus
			<i>punctiferalis punctiferalis punctiferalis</i>		mosure virus)		sources (infected plants/ volunteers)
			Puncinjerano )				to reduce re-infection. The removed
		Idukki,	Thrips	Low	Chlorotic streak	Low	plants may be burnt or buried deep
		Wayanad	(Sciothrips	2011	(Banana bract	20.1	in soil.
		(Kerala),	cardamomi)		mosaic virus)		Removal of natural hosts like

<b>[</b>		Kodagy	A abultal/Caracela	Low	<i>Colocasia</i> and <i>Caladium</i> to destroy
		Kodagu	Azhukal/Capsule	Low	5
		(Karnataka)	rot		breeding sites and check population
			(Phytophthora		build-up of the vector.
			nicotianae var.		Chlorotic streak
			nicotianae and		Prompt inspection of plantation,
			P. meadii)		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%).
Vanilla	Vegetative/	Karnataka	Premature	Medium	Premature yellowing and bean
	flowering/		yellowing and		shedding
	bean formation		bean shedding		Provide 50% shade in the
			(Colletotrichum		plantation. Provide mist irrigation
			vanillae)		(4 - 6  hours during pollination).
			Viral diseases	Medium	Spray carbendazim – mancozeb
			(Bean common		(0.25%) at 15 – 20 days interval.
			mosaic virus,		Viral diseases
			Bean yellow		Regular inspection and removal of
			mosaic virus,		infected plants. The removed plants
			mosuie virus,		miceted plants. The femoved plants

Ginger	Planting	Kerala, Karnataka, Tamil Nadu	<b>Rhizome scale</b> (Aspidiella hartii)	Low	Cucumber mosaic virus, Cymbidium mosaic virus) Soft rot (Pythium spp – P. aphanidermatum and P. myriotylum)	may be burnt or buried deep in soil. Control of vector (aphids) may be undertaken by spraying dimethoate (0.05%).Soft rot Seed rhizomes are to be selected from disease free gardens. Treat seed rhizomes with mancozeb (0.3%) or metalaxyl mancozeb (0.125%) for 30 minutes before planting. Rhizome scale Treat seed rhizomes with quinalphos (0.075%) (for 20-30 minutes) before planting, if infestation persists.
Turmeric	Planting	Tamil Nadu, Andhra Pradesh, Telangana	<b>Rhizome scale</b> (Aspidiella hartii)	Low	<b>Rhizome rot</b> ( <i>Pythium</i> <i>aphanidermatum</i> )	Rhizome rotTreating the seed rhizomes with mancozeb (0.3%) for 30 minutes prior at the time of planting.Rhizome scaleTreat seed rhizomes with quinalphos (0.075%) (for 20-30 minutes) before planting, if infestation persists.