CPCRI advice: Let nature deal with the whitefly menace NIE dt 23/12/17

According to CPCRI, several insects and a good monsoon are enough to get rid of whiteflies

Integrated pest-control methods

Apply I per cent starch solution on leaflets to flake out sooty moulds

Vellow attracts files. Hang small yellow papers mated with grease or castor oil on paim trunk to trap them

Encourage build up of parasitoids suth as Encarsia

In severe cases. spray neem oil (0.5 pc solution). Insecticide not recommended

> Keep spraying water on leaves

Fertilise the soil to keep coconut trees healthy

EXPRESS NEWS SERVICE Ill Karavitod

RATHER than using chemicals to rid crops of pests, let nature do its work,

An advice of this kind is what the Central Plantation Crops Research Institute (CPCRI) is giving coconut

and banana farmers. CPCRI has reported the second outbreak of the invasive rugpse spirafling whitefly in coconut and banana plantations and has advised farmers not to use chemicals on them.

CPCRI scientists said several insects lived of the exotic whiteflies



and eventually killed them, "Encouraging such insects, which are also called parasitoids, is the best way to suppress the rugose spiralling whitefly" said CPCRI director P Chowdap-In plantations infested with the whiteflies, CPCRI scientists found a natural build-up of a parasitoid called Encarsia guadeloupse Viggiani. "We found the parasitoid in 70 per cent of whitefly colonies where no chemical was sprayed. It will take care of the whiteflies," Chowdappa

The exotic fly native to Belize, Guaternal and Florida in southern United States, was first reported in 2004. In India, the pest which has a lifespan of just 40 days, was first reported in Pollachi and Palakkad in August, 2016. In six months, its infestation was recorded across Kerata and parts of Tamii Nadu, Andhra Pradesh and Karnataka, mostly in coconut trees. The good monsoon in southern

Kewla districts almost washed away the whiteflies, said Prathiba P S, an entomologist in CPCRI in the second outbreak, the dry northern districts of Kerala have been more affected, she said.

The rugose spiralling whitefly aitracts a fungus, too. The files form colonies under leaflets of lower cocoaut fronds. Early morning, the flies excrete honey dews which drop on the leaflets below Later, black sooty moulds are formed on the leaflets when a fungus attacks the honeydews.

Scientists said a Leiochrini heetle was found feeding on the sooty mould, "Complete cleaning of the sooty mould from the leaves was accomplished in experimental plots at Kayamkulam," Chowdappa said.

Alternatively starch solution or neem oil can be used to flake off black moulds, he said. "Farmers should focus on bio-control strategies and not use chemicals at any cost." he said.

Parasitoids | (Encarsia guadeloupae Viggiani)

Parasitolds are organisms that attach themselves to a single host for most of their lifespan, ultimately killing the host. The Encarsia parasitoid is a major natural enemy of the spirating whitefly

