

# COFFEE PESTS

## Coffee Berry Borer

*Hypothenemus hampei*



### DESCRIPTION

Females are 1.4-1.8 mm long. Adults are weak flyers. Males and larvae are not found outside coffee berry.

### SYMPTOMS

Small entrance hole typically on blossom-end of coffee berry. Depending on time since infestation, inner bean may be eaten away and filled with progeny.

### DISTRIBUTION

Big Island, Oahu, Maui; if found elsewhere on the islands please call 808-643-PEST

## Coffee White Stem Borer

*Xylotrechus quadripes*



### DESCRIPTION

Larvae are pale yellow with dark head. Adults are 1-1.5 cm long, slender, and black with distinct white markings.

### SYMPTOMS

Larvae feed on wood internally, and when mature, adults will leave exit holes 2-4 mm in diameter. Wood dust may be found on ground nearby entrance holes.

### DISTRIBUTION

Has not been found on the Hawaiian islands, if found please call 808-643-PEST

## Coffee Leaf Miner

*Leucoptera coffeella*



### DESCRIPTION

Larvae are transparent and reach 3.5 mm in length. Adult moths are brownish white, with frilled wings and 6.5 mm wingspan.

### SYMPTOMS

Mining trails turn into irregular brown spots on upper leaf surface. Bending the affected leaf causes epidermis to separate. Cocooned pupae typically found on lower leaves of plant.

### DISTRIBUTION

Has not been found on the Hawaiian islands, if found please call 808-643-PEST



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# COFFEE DISEASES

## Coffee Leaf Rust

*Hemileia vastatrix*



### SYMPTOMS

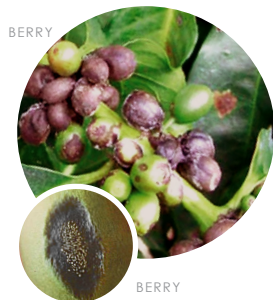
Orange, powdery, stippled splotches on the undersides of leaves. Infection starts as pale yellow spots with no sporulation. Heavy infections causes premature defoliation and reduced berry size.

### DISTRIBUTION

Has not been found on the Hawaiian islands, if found please call 808-643-PEST

## Coffee Berry Disease

*Colletotrichum kahawae*



### SYMPTOMS

Small, dark, sunken spots appear on the green berry, which can spread over the entire berry. Sporulation is then evident by a pale pink crust on the lesion.

### DISTRIBUTION

Has not been found on the Hawaiian islands, if found please call 808-643-PEST

## Brown Eyespot

*Cercospora coffeicola*



### SYMPTOMS

Appears as a dark spot on upper surface of leaf, often with a light center and yellow halo around margins. Lesions on berries appear brown, and are often surrounded by a purple halo.

### DISTRIBUTION

Commonly found throughout the Hawaiian islands, keep plants nourished and pruned to increase air flow.

## Blister Spot

*Colletotrichum gloeosporioides*



### SYMPTOMS

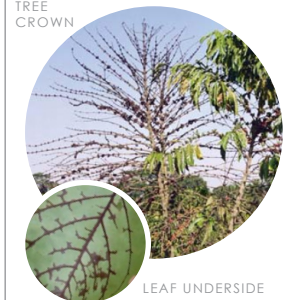
Light green spots on leaves, 2-10 mm in diameter. Spots can coalesce and turn necrotic. Pitting on berries. Young fruit may be aborted and ripen prematurely.

### DISTRIBUTION

Recently found on Kona side of Big Island. Infected plants were destroyed. If found, please call 808-643-PEST

## Coffee Wilt Disease

*Gibberella xyliarioides*



### SYMPTOMS

Leaf flagging, necrosis of younger branches and leaf veins. Premature ripening of berries. Black to violet fungal bodies on bark at base of the stem. Dark staining of wood below bark at base.

### DISTRIBUTION

Has not been found on the Hawaiian islands, if found please call 808-643-PEST



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