

ERYTHRINA GALL WASP

Quadrastichus erythrinae Kim (Hymenoptera: Enlophidae)

DESCRIPTION

The Erythrina Gall Wasp (EGW) is an exotic pest of the Wiliwili tree (*Erythrina variegata*). Common tree names include Tiger's Claw, Indian Coral Tree and Wiliwili-haole. It was first discovered in Hawaii in 2005. Populations of Wili-Wili or Erythrina occur in Hawaii, California and Florida. Erythrina Gall Wasp is a destructive, exotic pest that may kill trees in as little as two years. This insect completes its lifecycle in as little as 21 days. If trees are at risk of EGW infestation, inspect trees on a regular basis, especially the new foliage. Look for swelling (galls) in leaf tissue and in twigs. It is our recommendation to treat to protect trees in advance of an infestation or as soon as possible following EGW detection.

SYMPTOMS

Erythrina Gall Wasp is an exotic leaf and twig galling wasp that attacks Wili-Wili trees. The developing EGW larvae induces galls in tender leaf and stem tissue. Unchecked infestations cause leaf deformation, reduction in growth, defoliation and tree death.

TREATMENT

IMA-jet effectively controls Erythrina Gall Wasp in ornamental landscape trees. Research studies were conducted independently in Hawaii by the University of Hawaii and the USFS to evaluate the efficacy of Arborjet's IMA-jet (5% imidacloprid).

IMA-jet is a systemic insecticide used to control a variety of insect pests of ornamental or forest trees. IMA-jet is injected directly to the vascular system of trees. Pests controlled include aphids, whiteflies, soft scales, adelgids, gall forming wasps, leafhoppers, lace bugs, mealybugs, psyllids, serpentine leafminers, sawflies, thrips and leaf feeding beetles.

Read the entire label before use. Failure to follow label directions may result in poor control or plant injury.

Treat trees by microinjection (using the Arborjet QUIK-jet or Arborjet VIPER Hydraulic Device) or by Micro-Infusion® (using the Arborjet TREE I.V.).

PHOTOS

A: Enlarged adult female erythrina gall wasp.

B: Severe erythrina gall wasp damage.

C: Erythrina gall wasp pupae inside the gall.

D: Erythrina gall wasp damage.

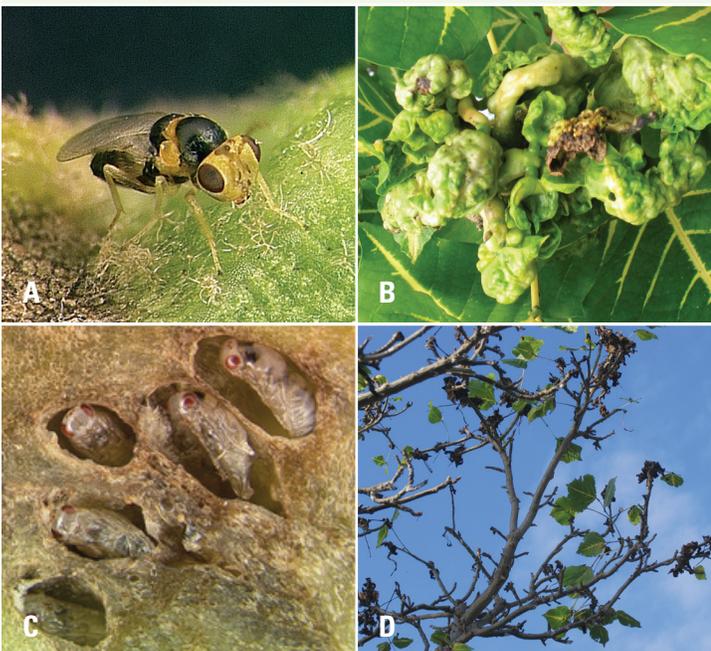
Photos A and C are from the State of Hawaii Department of Agriculture "New Pest Advisory" bulletin.

Photo A taken by: M. Tremblay,

Photo B taken by: Albert (Bud) Mayfield, Florida Department of Agriculture and Consumer Services, Bugwood.org

Photo C taken by: M. Tremblay,

Photo D taken by: Albert (Bud) Mayfield, Florida Department of Agriculture and Consumer Services, Bugwood.org



ARBORJET
Revolutionary Plant Health Solutions

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WHEN TO TREAT

For optimum results, apply IMA-jet prior to infestation. Also apply when insects are infesting and feeding upon the tree. IMA-jet Insecticide moves upward into the tree's canopy from the application sites. Systemic activity occurs only after the active ingredient is translocated upward in the tree. This product must be applied below the bark into the sapwood (i.e., the vascular) tissues. Uptake is dependent upon the tree's transpiration. Transpiration is dependent on a number of abiotic and biotic factors, such as soil moisture, soil and ambient temperature, and time of day. For uptake, apply when soil is moist, soil temperatures are above 45°F, ambient temperatures are between 40° to 90°F, and during the 24 hour period when transpiration is greatest, typically before 2:00 PM. Applications to drought or heat stressed trees may result in injury to tree tissue, poor treatment and subsequent control. Avoid treating trees that are moisture stressed or suffering from herbicide damage. Water trees prior to injects.

WHAT TO EXPECT AFTER TREATMENT

Studies have demonstrated that label use rates of IMA-jet provided at least 13 months of control of EGW. Reduction of leaf and twigs galled were observed following systemic tree injection treatment. Treating with IMA-jet does not remove the existing galls (symptoms), but the active ingredient moves into the soft tissues where larvae feed to affect control. Dosages are designed for insect control and retreatment is generally not necessary during the year after initial treatment. Monitor insect activity to establish a damage threshold for retreatment. Repeat applications as necessary.

WORLD CLASS FORMULATIONS

For treatment of erythrina gall wasp use IMA-jet

IMA-jet is a broad spectrum insect control with long residual activity for micro-injection and micro-infusion applications. IMA-jet is used in the management of specific insect pests of trees and landscape ornamentals.

IMA-jet may provide multi-season control against a wide range of piercing, sucking and boring insects. Imidacloprid has low toxicity to mammals.

Our products can be purchased at your local Arborjet distributor. For a distributor near you visit arborjet.com/distributor



QUIK-JET INJECTION TREE I.V. INJECTION



ARBORJET DELIVERY SYSTEMS

Arborjet's delivery systems are designed to be fast, affordable and effective. Contact us today to determine the right system for your needs. To find a distributor near you, go to www.arborjet.com.



QUIK-jet Kit



TREE I.V. 2-Pack Kit



QUIK-jet Pro Kit



Arborjet Deluxe Kit