

# The Feeder Tube

by

**Mauget**

JANUARY 2007

## ERYTHRINA GALL WASP UPDATE...



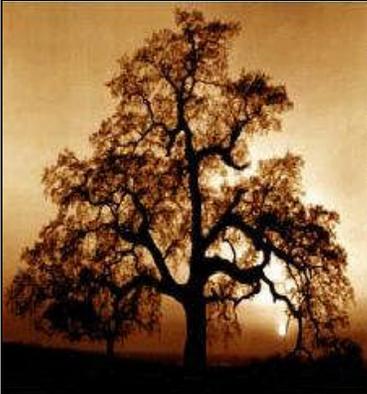
Crews in Honolulu, Hawaii are cutting down more than 1,000 trees in city parks and medians that have become infested by the Erythrina Gall Wasp that continues to threaten to cost the city and state millions in tree removal and replacement.

Just over one year after first being detected in Manoa, the wasp has spread statewide. Scientists fear it will wipe out the wiliwili tree which is only found in Hawaii.

Mauget continues to lead in successfully combating this destructive pest while working in conjunction with Geoff Eldridge of the Side-winder Injection Technology, and the Department of Land and Natural Resource.

Character is like a tree and reputation like a shadow. The shadow is what we think of it; the tree is the real thing.

-Abraham Lincoln



## ALTERNATIVE DELIVERY SYSTEM EXPLORED

In November, Mauget introduced Washington State Department of Natural Resources to two delivery systems for placing Imicide into Seed Cone trees at one of their Orchards in Washington, protecting them against seed feeding insects which attack in the spring.



Two Liters of Imicide were placed into over 40 trees in less than 4-6 man hours of production time. Look for Mauget's Imicide HP product available for hi volume and hi production applications through your local distributor.

## FERTILIZER RESEARCH

Mauget Research has opportunities to study new formulations of fertilizers in comparison with our established product lines. In fact, we have already set up some studies in Southern California on various tree species. It is vital that we look at these fertilizers beyond this limited geographic region and expand studies country wide.

In order to achieve this we will be approaching our marketing and applicator network for co-operators who would be interested in participating in such studies. Anyone interested can contact us via email at : [research@mauget.com](mailto:research@mauget.com).

## DR. ALEX SHIGO TAUGHT US MUCH BY NATE DODDS

Dr. Shigo and Dale Dodds were brought together by Walt Money, a Mauget charter distributor in the mid 1970's when Mauget was developing its line of products and refining the technology. In early micro-injection technology, wounding was a large issue. While with the US Forest Service as their Chief Scientist, Dr. Shigo agreed to oversee a study which spanned fourteen years to determine the long term affects of our process of delivering therapeutic and prophylactic chemicals to ornamental trees.

Through his work we learned that we needed to use a sharp clean drill bit and enter the tree from the root flair or collar of the plant to maximize the benefit and lessen the injury to the tree. Dr. Shigo was indeed a friend to Mauget and will be deeply missed.

## Calendar of Events:



Mid-Am Trade Show  
January 17-19, 2007  
Chicago, IL



Western Tree Management Symposium  
January 18, 2007  
Los Angeles Arboretum



Golf Industry Show  
February 22 - 24, 2007  
Anaheim, CA



Landscape Industry Show  
Feb. 28 - March 1, 2007  
Los Angeles, CA

## ARMILLARIA STUDY NEAR COMPLETION

Heather B. Vallier, a plant pathologist from Cambria, California has for over the past year been conducting studies to control Armillaria mellea using Mauget treatments. These trials are located in Nipomo, in central California. Material being studied includes Arborfos, Tebuject 16, and a biological fungicide based on Bacillus subtilus.

Final data collection has been completed with the report in process. Final report on this major pathogen will be out before the release of the next news letter.

## ANN FRANK'S CHESTNUT TREE TO BE CUT DOWN

"Our chestnut tree is in full blossom. It is covered with leaves and is even more beautiful than last year..." - Anne Frank, 13 May 1944

The ancient chestnut tree that comforted Ann Frank while she was in hiding during the Nazi occupation of Holland must be cut down according to the Amsterdam city council. Experts estimate the trees age to be between 150 and 170 years old but it now being destroyed by both an aggressive fungus and a moth called the horse chestnut leaf miner.

In November of 2006 it appeared the condition of the tree had deteriorated so much that it was no longer safe to leave it standing. The inner wood is rotten and the dying roots and bark are not regenerating.

A felling license has been requested. Grafts already have been taken and a sapling from the original chestnut will replace the once towering tree.

Mauget is undertaking studies to combat this dreaded disease that had virtually wiped out the American Chestnut as well.

## MANOMETER TESTIMONIAL

Fred DeMaria of Tierra Verde Landscape, Inc. in Huntington Beach, CA. writes : "After using the Mauget Manometer for a while, I have realized I could not inject trees without it! It allows me to see approximately how long it will take the tree to absorb the chemical—or if it will absorb at all. I find this very useful when I'm scheduling my time or determining if the tree is healthy enough to accept the chemical. I could not leave for work without it!"

## Ask Ann:

By Ann Hope

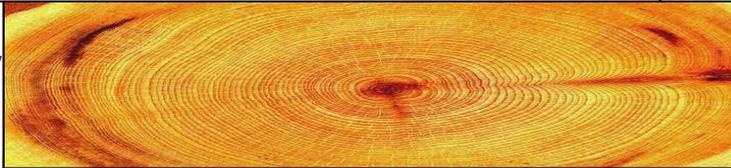


Q. What is a "piggyback" application?

A. A "piggyback" application is when you inject more than one treatment into the same hole using the same feeder tube. For example, if you are making an application with an insecticide and a fungicide, the insecticide must be applied first. The insecticide products contain less material and the capsule will drain quicker. Once the capsule of insecticide is empty, remove the capsule without removing the feeder tube and then connect the fungicide capsule to the already inserted tube.

NOTE: Only two chemicals can be applied at one time in this manner. If a fertilizer were also needed, this application would have to be made into a different hole at a later time.

Ann Hope is Mauget's Technical Support Representative for Southern California. Please email any questions to Ann at: [ann@mauget.com](mailto:ann@mauget.com)



## MICRO-INJECTION TIMING

By Jim Rollins

Frequently I am asked when the best time is to do Mauget Microinjections. Although there is no simple rule to microinjection timing, there are a few guidelines to keep in mind. You will always experience the best uptake when the tree is actively transpiring.

Active tree transpiration generally occurs during warm, sunny weather when there is good soil moisture. Avoid attempting to do microinjections when the tree is in winter dormancy. Generally, trees will go into dormancy and transpiration will stop when the soil temperatures are below 45 degrees. A good soil thermometer can help you determine when it is too late in the fall or too early in the spring to get good uptake. The transpiration rate in trees can also decrease during some warm weather conditions. This can happen when the soil becomes extremely dry.

If you are doing microinjections during dry weather, recommend that your client water the tree both before and after you microinject a product. It is also a good idea to avoid attempting microinjections during extremely high temperatures (90°+) combined with high humidity (90 %+). If you are experiencing this type of weather, inject your trees early in the day, before the conditions get too hot and humid. Although fertilizer and micronutrient products are generally injected during the spring or fall, they may be injected into trees any time the tree is actively transpiring.

Most insecticide and fungicide products perform best when used as either a preventative program or possibly as an early curative program. Timing your injection one to two weeks before you anticipate the insect or disease infestation is a good general rule to follow. Your local extension service or state university may be able to help you with your timing decisions by providing updates relative to the timing and development of insect and disease problems. These updates are frequently based on degree days and can be quite helpful. If you have any questions about injection timing please feel free to contact either Mauget or your local Mauget distributor.

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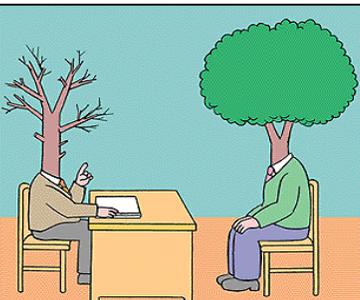
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suggestions or topics you would  
like to see in future issues

The Distributor's Feeder Tube is a quarterly newsletter published by the J.J. Mauget Co. Its goal is to provide information to our distributorship in what is new and what is "news" with Mauget and the tree care industry.



Frankly, Mr. Oaks, its not that we don't think you're qualified, but we're a little concerned about your shady past.

Happy  
New  
Year!!  
From **Mauget**