

**FEBRUARY 2012**

## When to Treat with MycoJect® Ultra for Fireblight or Bacterial Leafscorch?

By: Marianne Waindle

Mauget's newest product MycoJect® Ultra, a 4.3% Oxytetracycline Hydrochloride antibiotic, is very effective in suppressing symptoms from both Fireblight and Bacterial Leaf Scorch diseases, however the timing for injection will vary depending upon the season (location) and the disease.

For spring diseases such as Fireblight, treatment should be made in the spring prior to or during bloom period and through spring until temperatures become hot. If the bloom period is missed, treatments will still prevent secondary twig infections. More southern latitudes can begin making treatments early in the calendar year and extend until higher temperatures naturally slow down disease spread.

Bacterial Leaf Scorch current years symptoms can be suppressed with April/May injections. The BLS pathogen, *X. fastidiosa*, overwinters in the root systems of trees so late summer or fall treatments provide symptom suppression the next season. For existing customers with BLS make a spring injection while late summer applications work well for new customers with positive identified infections.

Mycoject Ultra Timing Chart for Fireblight and Bacterial Leaf Scorch												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
North CA		FIREBLIGHT										
					BLS current year			BLS next year				
South CA	FIREBLIGHT											
				BLS current year				BLS next year				
PNW			FIREBLIGHT									
				BLS current year			BLS next year					
TX, OK, UT			FIREBLIGHT									
				BLS current year			BLS next year					

### Calendar of Events:

#### Target Specialty Group Annual Winter Seminar Series

Houston TX  
February 21, 2012

#### Tree Clinic Pharmacy Tree Health Care Seminar

Dallas, TX  
February 22, 2012

#### Golf Industry Show

Las Vegas, NV  
Feb. 29 - March 1, 2012

#### Target Annual Workshop

Long Beach, CA  
March 8, 2012

#### Target Spring Tree Meeting

Portland, OR  
April 5, 2012

#### WCISA

Pacific Grove, CA  
April 29 - May 2, 2012

#### Mauget Training Seminars

Northeastern Arborists  
West Patterson, NJ  
March 6, 2012  
937-837-1390 for info

#### Midwest Arborist Supplies

Chicago, IL  
March 15, 2012  
800-423-3789 for info

### MAUGET FRIENDS

#### WHO LEFT US

We lost two very good friends this past year.

Marc Merman,  
who conducted IPM seminars and worked with our marketing dept left us in July.

Mary Pat Harrod  
of Harrods Tree service and a Texas distributor for the past 30+ years lost a valiant battle against cancer. These Mauget friends will be truly missed.

## Notes From the Field:

By: Marianne Waindle

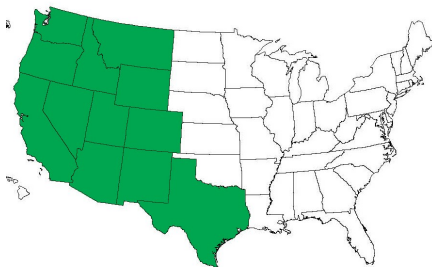
### The West

Weather events in 2011 from Texas to Seattle and everything in between were anything but the norm. Water issues were either overabundant in Portland or entirely lacking and in Texas it seemed that the entire state was on fire at one time or another.

Needless to say, Mauget business reflected environmental conditions.

Even with that being said, the new MycoJect® Ultra had very good introduction and reception last year. We anticipate an even greater sales year with this unique antibiotic as its primary benefits of 4 months residual will outperform foliar antibiotic treatment for Fireblight anytime.

Remember to remind customers that MycoJect® Ultra will suppress symptoms from Fireblight much better than spraying and their customer's tree's will have less loss from dieback. A timing chart for either usage with Fireblight or Bacterial Leaf Scorch is found on the front page of this issue of the FeederTube.



### Liquid Loadable Products

Mauget is offering six of our chemical products in one liter bottles:

Imicide® Hp  
Stemix Plus® Hp  
Arborfos® Hp

Inject-A-Min Mn® Hp  
Abacide® 2 Hp  
Mycoject® Ultra Hp



We refer to these products as "Liquid Loadable Products". The liquid loadable products are designed to be used through most any reloadable tree injection system including the Smart Shot, Chemjet, ArborJet, M3 Infuser in addition to other reloadable systems. The liquid loadable products are Mauget's proven chemistry, packaged in a convenient, ready to use formulation which does not need to be diluted or mixed. If you currently use a reloadable tree injection system, consider using Mauget's liquid loadable products.

Chemicals in liter bottles are designated by an "Hp" after their names. Mauget will continue to offer all of our plant protection products in the capsules.

### Abacide®2 Control of Ips

By: Charlie Dodds

Inject-A-Cide® (MSR) has for decades been a mainstay insecticide to control various types of bark beetles in pine trees. Because of its limited activity 30-60 days in trees, plus its DANGER label rating, Mauget has been active in finding a suitable alternative. Abacide®2 was a promising candidate. Abacide®2 (Avermectin) is produced by the fungus *Streptomyces avermitilis*, which belongs to the family of glycoside insecticides, all of which exhibit toxicity for nematodes, arthropods, and several other pests. Considering the effectiveness of other related chemistry in controlling Ips, Mauget has sponsored field trials of Abacide®2.

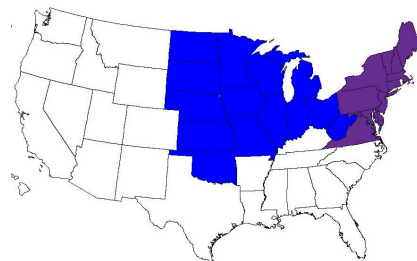
In the earlier Ips beetles trials, Abacide®2 (at high dosages) was highly effective in preventing the successful attack of Ips beetles on loblolly pine, using spring and fall applications with readings made 3 (spring) and 9 (fall) months after injection. In the newer trials (with rates at much lower dosages), even at lower rates Abacide®2 was highly effective in preventing the successful attack of Ips beetles 3 (spring) and 9 (fall) months after injection.

Field trials are also being conducted with a combination of Abacide®2 and Tebuject®16 to control Blue Stain fungus as well as Mountain Pine Bark beetle with encouraging results thus far. Mauget is also investigating Abacide®2 for the control of Red Turpentine Beetle.

## Notes from the Field: The Midwest & Northeast

By: Jim Rollins

Throughout much of the Midwest and Northeast the late fall and early winter temperatures have been above normal and snow-fall has been below normal. Many of those in the lawn, landscape and tree business have been able to continue working outside but it won't be long before winter weather conditions will make it difficult to continue doing so. The winter months are an excellent time to prepare for spring by promoting your business and generating new business next spring. As a way of helping you promote your microinjection services, Mauget offers marketing materials designed to help you promote your business. If you have interest in any of these marketing materials please let us know.



As you are aware, this past year Mauget introduced a new formulation of Imicide®. This new formulation has been developed to move into the tree quicker. A purple dye has been added, making it easier to visually determine when the feeder tube has emptied. I have talked to a number of applicators who have reported very favorable experiences with this new Imicide formulation.

Mauget also introduced a new formulation of Mycoject®. Applicators have also told me that they have had very good results with the new Mycoject® Ultra product. The new Mycoject® Ultra moves into the tree quicker than the previous formulation. It is used to control diseases caused by bacteria including Fireblight and Bacterial Leaf Scorch.

Some applicators experienced heavy pressure from Japanese Beetles this past summer. Imicide® applied during late May – early June provides a very effective preventative Japanese Beetle program.

Bacterial Leaf Scorch on Oak Trees continued to be a problem in pockets throughout the Midwest and Northeast. A Mycoject® Ultra application provides very good control of Bacterial Leaf Scorch.

### Ask Ann: By Ann Hope

**Q. I heard that I can purchase Mauget products in liter bottle. Is that true?**



A. Yes! Mauget is proud to announce that several of our Premier products now come in liter size containers. This allows the applicator to use his or her method of choice as to how or with what device they want to inject the tree. Mauget has tested all of the popular liquid loadable devices and determined our chemistry to be compatible with ALL of them!

There is considerable cost savings purchasing by the liter. Additionally, it reduces **HAZ MAT** waste as there are no capsules to dispose of.

Mauget also carries lower pressure devices that do not require the plugs that other injection devices are required to use. To see these new injection devices, please go to our webpage [www.mauget.com](http://www.mauget.com).

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)

# Arboretum Suffers Major Losses in California Windstorm

ARCADIA, Calif. (KABC) -- It's one of the most beautiful spots in Southern California. Recently, the Los Angeles County Arboretum and Botanic Garden reopened its doors after a devastating windstorm toppled trees.



The arboretum lost 235 of its trees when hurricane-force winds swept through on the night of Nov. 30. "You have to imagine that somebody with very large hands came down and picked it all up, squeezed it, crumbled it, and threw it back on the ground. It was quite mind boggling," said Superintendent Timothy Phillips.

Casualties included a 140-year-old gum tree and a South American ear pod tree - its heavy branches now broken and collapsed. "It's sad to see because you know that's a whole civilization in there in those rings of those trees," said visitor Kathleen Ellison.

After weeks of cleaning up the mess, the arboretum is finally back open to the public. But caution tape still surrounds the destroyed trees. "I think they've done an awfully good job cleaning this up," said visitor Richard Bensen. "It's amazing and it would be nice to come back in 40, 50 years and see what they're going to do." All of the debris that has flown around the arboretum earlier this



month has been moved, covering a 17,000-square-foot open field. "You'll see these mulch piles are sort of scattered all over the place," said Phillips. "And that's chip that was branches and trees and debris that was chipped

on site, because we just don't have enough room to place it." And what isn't ground up may be given to wood workers and turned into furniture or bowls.

As for the missing trees, it will be a challenge to replace those shaded canopies. But it's well worth the wait. "We're going to be seeking collection material from as small as seed, and growing it on," said Phillips. "Reshaping the arboretum doesn't happen overnight, it took quite a few years to get to this point. So we are not in any hurry."

## ALB UPDATE

For the 11th year Mauget's Imicide® HP was once again chosen as the preferred material for trunk injection treatment for the ALB quarantine treatment program. We are indeed gratified that this material has achieved and maintained the status it has with this critical USDA program.

## WINTERMOTH UPDATE

At the recent USDA invasive pest conference, presentations were made indicating this pest is building to become a major threat in the Northeast this year. Plant health care professionals should contact their distributor for product & timing recommendations.

## MARKETING/PRODUCTION REPORT JANUARY 2012

By: Nate Dodds

2011 ended on a high note for Mauget with year end trade shows indicating a strong faith that the economy seems to be rebounding solidly. 2012 promises to hold challenges but more important wonderful opportunities.

Field feedback regarding new formulations of Imicide® and Mycoject® Ultra are very exciting and indicate strong field support & continued growth of these products.

Liquid formulations of Imicide® HP, ArborFos® HP, Abacide®2 HP, Stemix® Plus, Inject-A-Min Mn® HP and Mycoject® Ultra HP have received EPA registration. This liter packaging of our frontline products for use in liquid loadable systems from our products or others is receiving growing demand in the market place.

TreeAzin™ has been discontinued and will not be represented in the future by Mauget.

Product availability and order fulfillment continued to meet our distributors demands throughout the 2011 season. Quality control maintained a 99.9%+ satisfaction rate as well.

Recent ongoing work by Texas Forest Service scientists indicate that high levels of Abacide®2 have shown multi year suppression of Ips bark beetle infestations. More on this important work will be published shortly.

## Applicator's Database

Please remember that when signing up for the Mauget Online Applicator's Database that you

**must be a certified Mauget applicator**

to be eligible ! You must also provide all zip codes you cover. Failure to provide this information will result in a rejection of your application. Feel free to contact us at [mauget@mauget.com](mailto:mauget@mauget.com) with any questions or for more information! Or check it out at [www.mauget.com](http://www.mauget.com)!

## MAUGET PROFILED IN TCIA

Mauget was honored to have been profiled in the January issue of TCIA magazine. To be recognized in this premier trade publication is indeed humbling and serves to further our reliance and support to the TCIA organization. Thank you TCIA.

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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.



# Wounding Facts About Micro-Injection Technologies

With the introduction of a number of new systems, much discussion has been made about which systems are the least injurious to the tree. Two methods of introducing liquid products into non-transpiring trees are 1) more pressure and 2) larger reservoirs with or without plugs. A more compatible technique that eliminates waiting time is the use of ready-to-use chemistry in Gen II capsules or from Hp Litr products with smaller dosages (2-6mL per site) and the lower amounts of product do not require plugs—therefore more cost savings per user.

One system requires no drilling, delivers low volume material and comes with a plug to keep the material in the tree. It also claims to be “the quickest with the least amount of wounding to the tree, because you don’t drill” but the three images below (Figures 1, 2 ,3) illustrate injuries sustained by this no drilling, high pressure system.



Figure 1



Figure 2



Figure 3

Another system uses 3/8 to 1/2 inch drill bit 1-2" into the tree, delivering large volumes of material. This system also requires a plug to keep the material inside the tree. The three images below (Figures 4,5,6) illustrate damage from this system.



Figure 4

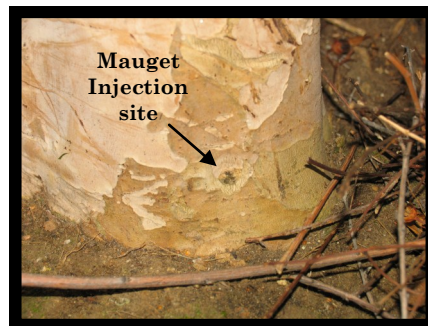


Figure 5



Figure 6

The original Micro-Injection system by Mauguet uses an 11/64” drill bit and drilling 3/8-1/2" into the conductive xylem tissue requires no plugs as the material is passively (infused) into the conductive tissue of the tree.



It was clear to Mauguet that between the chemistry and High pressure applications above 45 PSI pose the greatest concern for wounding effects. Research done by Dr. Alex Shigo showed that small shallow wounds below 40 PSI, pose the least amount of risk to serious injury to the tree. Also that the applications should be made in the meristematic cell region of the tree, for best uptake and distribution and improved wounding response.