

THE SHADE TREE

A BI-MONTHLY BULLETIN DEVOTED TO NEW JERSEY'S SHADE TREES

Volume 94 — January - February 2021 – Issue 1 & 2

This Issue Presents...

Pennsylvania Turns to Man's Best Friend to Sniff
Out Spotted Lanternfly Infestation

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How and When to Plant Trees

William J. Porter Arboricultural Scholarship and Community
Tree Project Award

NJ Federation Officers and Directors for 2020-2021

Coming Soon to the NJSTF Website

PENNSYLVANIA TURNS TO MAN'S BEST FRIEND TO SNIFF OUT SPOTTED LANTERNFLY INFESTATION

By: Caroline Gutman • NPR December 11, 2020

Spotted lanternflies are easy enough to spot, with ruby red streaks beneath black-and-white wings that blend like an abstract expressionist painting.

But six years after the first sightings of them, Pennsylvanians have been told to squash them on sight. They exact a huge toll on agriculture. The insects feed off 70 plant species, including fruit trees and grapevines, and they could cost Pennsylvania \$324 million per year in lost crops and 2,00 agricultural jobs if left unchecked.

Squashing the adults won't solve the problem, however. Their eggs are odorless to humans and hard to find, tucked into wheel wells, tree trunks, pots and crates.

"Transporting them somewhere where they can devastate a vineyard or destroy crops- it's a huge danger," says Shannon Powers of the Pennsylvania Department of Agriculture.

With no natural predators in the U.S., the native Southeast Asian insect is spreading quickly. There are infestations in six other states and sightings as far as Massachusetts and North Carolina.

The only option is to stop them from hatching. While the spotted lanternfly has a modern-art look, it also has some nasty habits, often causing

BULLETIN OF THE NEW JERSEY SHADE TREE FEDERATION

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ISSN # 0037-3133

LANTERNFLY INFESTATION

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black sooty mold to grow in its wake. The insects hatch in the spring and lay clusters of 30 to 50 eggs in the fall.

Lucky, a 19-month-old German Shepard, is the first dog trained to find the eggs of the colorful cousin of cicadas and aphids before lanternflies hatch and spread their wings.

Lucky's work matters most on the border of infested areas, according to Cynthia Otto, a veterinarian and executive director of the University of Pennsylvania School of Veterinary Medicine's Work Dog Center, which trained Lucky.

Lucky's handler, Shane Phillips, works at the Department of Agriculture. He has no dog-training background, but after working to eradicate Asian long-horned beetles in Ohio, he came up with the idea for the canine lanternfly tracking. After eight weeks of training Lucky moved in with Phillips' family and its two dogs.

"You're taking on a dog that's a little different than your average pet," Phillips says, "They want to work all the time. If you let them lay around, they're going to get a little crazy."

For U.S. and Canadian businesses that transport agrobusiness through southern Pennsylvania, where 26 counties are quarantined, Phillips and Lucky do regular egg inspections. When Lucky finds eggs, Phillips scrapes them into a glass jar of alcohol to kill them, sometimes saving them for later training exercises. It's slow work, but it beats squashing them underfoot.

The Working Dog Center has graduated more than 100 dogs, using positive reinforcement to train them for other sniff-intensive work, including tracking COVID-19.

Training a dog in spotted lanternfly tracking isn't cheap. It's \$35,000 for training, plus Phillips' time and equipment. Lucky's first year is covered by a \$110,000 grant from the U.S. Department of Agriculture. And now the Pennsylvania Department of Agriculture is a major research center for fighting spotted lanternflies, with more than \$34 million in state and federal funding to date.

In the coming years, canine lanternfly tracking is poised to take off, and if the program works, researchers think they can train dogs on a much larger scale-long before the treacherous masterpieces take flight.

NJ SHADE TREE FEDERATION PROFIT & LOSS STATEMENT

October 2019 through September 2020

Income

Contributed Support

Contribution.....	150.00
Total Contributed Support.....	150.00

Dues

Associate.....	800.00
Commercial.....	4,700.00
Industrial.....	5,400.00
Municipal.....	<u>22,331.00</u>
Total Dues.....	33,231.00

Earned Revenues

Interest-savings/short-term investments.....	<u>5,751.87</u>
Total Earned Revenues.....	5,751.87

Publications

“The Shade Tree” Ads.....	4,150.00
Laws for NJ Trees.....	24.00
Mulch Brochure.....	100.00
Proper Tree Planting Brochure.....	60.00
Trees for NJ Streets.....	<u>129.00</u>
Total Publications.....	4,463.00

Special Events

Annual Conference 2019

Exhibit Booth Rentals.....	5,100.00
Registrations.....	94,808.50
Sponsors.....	<u>900.00</u>
Total Annual Conference 2019.....	100,808.50

Annual Conference 2020

Exhibit Booth Virtual.....	1,750.00
Registrations.....	25,750.00
Sponsors.....	<u>2,600.00</u>
Total Annual Conference 2020.....	30,100.00

Total Special Events.....	130,908.50
Total Income.....	<u>174,504.37</u>
Gross Profit.....	<u>174,504.37</u>



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PROFIT & LOSS STATEMENT

Continued from page 3

Expense

“The Shade Tree” Editor’s Honorarium.....	3,000.00
Postage.....	1,225.00
Printing.....	<u>9,218.65</u>
Total “The Shade Tree”.....	13,443.65

Annual Conference 2019

Awards.....	173.00
Barcode Scanning.....	2,747.98
Credit Card Processing Fee.....	884.18
Entertainment.....	1,000.00
Executive Director Expenses.....	1,321.80

Hotel

AV.....	11,314.78
Fire Permit.....	425.00
Friday Coffee Break.....	5,047.92
Friday Lunch.....	19,957.98
Room Flip Charge.....	250.00
Room Reservations.....	2,293.83
Thursday Coffee Break.....	5,565.72
Thursday Dinner.....	16,656.85
Thursday Lunch.....	<u>26,782.02</u>
Total Hotel.....	88,294.10

Office Supplies.....	361.72
Pipe and Drape.....	3,940.00
Printing, Postage, Stationary.....	463.52

Speaker

Expenses.....	2,414.00
Honorarium.....	<u>2,550.00</u>
Total Speaker.....	<u>4,964.00</u>
Total Annual Conference 2019.....	104,110.30

Annual Conference 2020

Credit Card Processing Fee.....	142.83
Giveaway.....	1,740.00
Postage.....	563.25
Printing.....	2,850.00
Virtual Event Platform.....	<u>15,500.00</u>
Total Annual Conference 2020.....	20,796.08

PROFIT & LOSS STATEMENT*Continued from page 5*

Bill Porter Scholarship.....	2,500.00
League of Municipalities	
Exhibit Booth.....	1,874.70
Giveaways.....	299.95
Meals.....	768.62
Parking.....	105.00
Postage.....	330.00
Rooms.....	210.21
Travel & Tolls.....	<u>155.22</u>
Total League of Municipalities.....	3,743.70
Office Expenses	
Annual Report.....	30.50
Credit card processing fee.....	199.11
Executive Board Meetings.....	208.17
Executive Director Expenses.....	110.03
Insurance	
General Liability.....	2,807.74
Workman's Compensation.....	<u>588.00</u>
Total Insurance.....	3,395.74
Internet.....	459.22
Memberships.....	2,515.00
Miscellaneous.....	11.91
NJ Labor Tax Assessment.....	9.34
Parking Permits.....	213.25
Pension – 457 Plan Admin.....	550.00
Printing Postage, Stationery.....	975.27
Publications.....	1,400.00
Supplies.....	763.84
Telephone & telecommunications.....	820.98
Website.....	<u>1,528.24</u>
Total Office expenses.....	13,190.60
Salaries & related expenses	
Officers & directors salaries	
Executive Director.....	46,386.00
Total Officers & directors salaries.....	46,386.00
Payroll taxes	
457(b) Pre-Tax Contribution.....	0.00



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PROFIT & LOSS STATEMENT

Continued from page 6

Federal Withholding.....	0.00
FICA Withholding.....	3,548.48
NJ Family Leave.....	0.00
NJ State Withholding.....	0.00
NJ Unemployment & Disability.....	<u>176.45</u>
Total Payroll taxes.....	<u>3,724.93</u>
Total Salaries & related expenses.....	50,110.93
Travel & meetings expenses	
Conference, convention, meeting.....	<u>255.70</u>
Total Travel & meetings expenses.....	<u>255.70</u>
Total Expense.....	<u>208,150.96</u>
Net Ordinary Income.....	<u>-33,646.59</u>
Net Income.....	<u>-33,646.59</u>

HOW AND WHEN TO PLANT TREES

By: Rick Rosen • Dallas News January 1, 2018

Many homeowners think spring when they think about planting trees. But gardening experts consider fall the best time to add trees to the landscape. Trees planted now get a head start on establishing roots before summer returns.

Tree roots (and those of other plants) grow whenever the temperature is roughly above 40 degrees. In mild winters, roots gain the strength they need to deal with summer. And, because their roots have been growing all fall and winter, trees planted now burst with growth when spring arrives. Homeowners may worry that a hard freeze or extended subfreezing weather will kill or damage trees planted in fall. It is a good idea to protect above-ground portions of recently planted trees and shrubs. Because the ground doesn't freeze in our area, the roots should be fine. You can plant trees that are sold in pots or balled-and-burlapped specimens (a tree grown in the ground is dug up and its rootball wrapped in burlap) in fall. However, experts say to wait until winter to plant bare-root trees, including fruit and pecan trees. They should be dormant for the best results.

To transplant, Certified Arborist Steve Houser digs a hole twice the width of the rootball. If you're shopping for a tree with great fall color, you can ask the nursery to show you exactly what color(s) you'll get.

Once you've chosen a tree, what is the best way to plant it?

PROPER PLANTING

1. Dig a hole twice as wide as the rootball. More important: Make sure the hole is no deeper than the top of the rootball. Planting the tree one to three inches above the level of the surrounding ground is best, since the tree may settle.
2. Place the tree on solid soil. Don't loosen the soil under the rootball, and don't add compost, bark or any other amendment. Lift and carry the tree by the rootball, not the trunk.
3. Backfill only with the soil you excavated for the hole.
4. Tamp down the soil around the rootball.
5. Water thoroughly to eliminate air pockets.
6. Use soil to build a four-inch-tall berm around the edge of the hole. Add a four to six-inch layer of mulch inside the ring, but never cover the root flare.
7. Remove twine binding burlap around the rootball.

POST-PLANTING TIPS

The extension service recommends the following:

- Don't fertilize the tree after you plant it. Spring is the time for fertilizing, and even then go light on fertilizer because fertilizer can burn a newly planted tree's roots.
- Staking the tree is considered a last resort. Some experts believe staking weakens a tree's ability to thrive on its own once the stakes are removed and also can damage the bark, making it easier for pests to infiltrate. However, if the trunk is too weak to support itself, use two stakes, on opposite sides of the tree, and remove them after one year. Source: Texas Cooperative Extension keeps roots cool in summer.
- Maintain a two to four-inch layer of mulch.
- Never cover a tree's root flare, the juncture where the vertical trunk fans out, with soil or mulch.
- If a tree is rootbound remove it from its plastic pot, try to loosen the roots from their circular grip, even severing some, best done by an arborist, to encourage lateral growth.

WILLIAM J. PORTER AWARD OF APPRECIATION

Happy New Year! Wishing you and your loved ones the best of health and happiness this year!

We are pleased to announce that the NJ Shade Tree Federation is now accepting applications for the William J. Porter Arboricultural Scholarship as well as the Community Tree Project Award.

The William J. Porter Arboricultural Scholarship is offered to encourage studies and careers in Arboriculture and Urban Forestry. Rutgers students, professionals or volunteers in the industry are eligible to apply. Visit our website at njstf.org for more information regarding the application process and deadlines for submission.

The William J. Porter Community Tree Project Award is intended to provide up-front funding for a small project that benefits the tree resource in a community. There will be one awardee per year. The deadline for submission is June 30th. Visit our website at njstf.org for more information regarding the application process.

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NJ FEDERATION OFFICERS AND DIRECTORS FOR 2020-2021

The New Jersey Shade Tree Federation held a supplemental Annual Business Meeting on December 16, 2020 via a Zoom Conference Call. The purpose of the meeting was to review the fiscal budget and the election of Officers and Executive Board.

Officers:

- Liz Stewart – President, River Edge Shade Tree Commission
- Pam Zipse – Vice-President, Rutgers University
- Donna Massa, Executive Director

Directors:

2021

- Joshua Faas, Plant Detectives
- John Linson, The Shade Tree Department
- Brittany Carino – Atlantic City Electric
- Neil Hendrickson retired, Readington Township

2022

- Michael Zichelli – Borough of Glen Ridge
- Frank Gallagher, PhD – Rutgers University
- Paul Cowie – Paul Cowie & Associates
- Jason Grabosky, PhD – Rutgers University

2023

- *Steven Chisholm, Jr. – Aspen Tree Expert Co
- *George Sweetin - ACRT
- *George Meglio – Woodbridge Shade Tree Commission
- *Robin Potter – Haddonfield Shade Tree Commission

**Voted in during Annual Business Meeting of December 16, 2020.*

COMING SOON TO THE NJSTF WEBSITE

Coming Soon - Get to Know the NJSTF Officers & Directors and your fellow members! In an effort to bring our members together throughout the year, the NJSTF will be posting periodic video chats with some of our membership so that we can get to know each other better. We will begin by interviewing the officers & directors, but will be looking for individuals, professionals, and businesses from among our membership who have something interesting to share. We will let you know when the videos are up on the website via an e-mail blast, or check back on the website soon as we start to post the videos: www.NJSTF.org.



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