

# THE SHADE TREE

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

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**Volume 93 – January - February 2020 – Issue 1 & 2**

*This Issue Presents...*

Lisa Simms Receives William J. Porter Award of Appreciation  
NJSTF Profit & Loss Oct 2018 – Sept 2019  
Managing Winter Injury to Trees and Shrubs – Part I

## **LISA SIMMS RECEIVES THE WILLIAM J. PORTER AWARD OF APPRECIATION**

Each year, the William J. Porter Award of Appreciation is presented to someone who excels in their contribution to Arboriculture and has made significant strides to promote trees, education and makes a positive impact to peers and colleagues. At the 94th Annual Meeting of the NJ Shade Tree Federation, Lisa Simms was presented with the coveted honor.

Lisa has served for many years as the Executive Director of the NJ Tree Foundation and has been a continued supporter of the NJ Shade Tree Federation. Lisa and her staff join the Federation each year at the Annual Conference to lend very much appreciated helping hands. During the year, Lisa is sure to stock up on the Federation's brochures and distribute the publications at the many presentations she gives throughout the year to the many organizations and individuals she educates about the care and maintenance of shade trees. As Executive Director of the NJ Tree Foundation, Lisa directs her staff and works tirelessly with communities to plant the proper trees and educate all on their care. It is with great pleasure and fitting that this year's William J. Porter Appreciation Award is presented to Lisa Simms.

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## **NJ SHADE TREE FEDERATION PROFIT & LOSS STATEMENT**

October 2018 through September 2019

### **Ordinary Income/Expense**

#### **Income**

Contributed Support

Contribution.....100.00

Total Contributed Support.....100.00

**BULLETIN OF THE NEW JERSEY SHADE TREE FEDERATION**

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**PROFIT & LOSS STATEMENT**

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**Dues**

Associate.....	1,025.00
Commercial.....	4,950.00
Industrial.....	5,650.00
Municipal.....	<u>24,655.00</u>
Total Dues.....	<b>36,280.00</b>

**Earned revenues**

Interest-savings/short-term inv.....	<u>5,395.58</u>
Total Earned revenues .....	<b>5,395.58</b>

**Publications**

"The Shade Tree" Ads.....	4,860.00
Laws for NJ Trees.....	63.00
Mulch Brochure.....	220.00
Proper Tree Planting Brochure.....	190.00
Trees for NJ Streets.....	<u>240.00</u>
Total Publications.....	<b>5,573.00</b>

**Special events**

**Annual Conference - 2018**

Exhibit Booth Rentals.....	2,300.00
Registrations.....	<u>94,053.61</u>
Total Annual Conference 2018.....	<b>96,353.61</b>

**Annual Conference - 2019**

Exhibit Booth Rentals.....	13,400.00
Registrations.....	43,205.00
Sponsors.....	<u>4,100.00</u>
Total Annual Conference - 2019.....	<u>60,705.00</u>

Total Special events.....	<u>157,058.61</u>
Total Income.....	<u>204,407.19</u>
Gross Profit.....	204,407.19

**Expense**

"The Shade Tree" Editor's Honorarium.....	3,000.00
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**PROFIT & LOSS STATEMENT**

*Continued from page 2*

**Dues**

Labels.....	26.49
Postage.....	700.00
Printing.....	<u>4,963.32</u>
Total "The Shade Tree".....	<b>8,689.81</b>

**Annual Conference - 2020**

Room Reservations.....	<u>2,500.00</u>
Total Annual Conference – 2020.....	<b>2,500.00</b>

**Annual Conference - 2015**

**Hotel**

AV .....	<u>-330.00</u>
Total Hotel .....	<u>-330.00</u>
Total Annual Conference 2015 .....	<b>-330.00</b>

**Annual Conference - 2016**

**Hotel**

AV .....	<u>-506.50</u>
Total Hotel .....	<u>-506.50</u>
Total Annual Conference 2016 .....	<b>-506.50</b>

**Annual Conference - 2018**

Awards.....	80.00
Credit Card Processing Fees .....	432.09
Entertainment .....	1,000.00
Executive Director Expenses .....	496.54
Giveaway .....	978.38

**Hotel**

AV .....	4,048.50
Friday Coffee Break .....	906.04
Friday Dinner .....	1,190.27
Friday Lunch .....	17,436.24
Friday Morning Coffee .....	4,843.40
Room Reservations .....	2,555.94
Thursday Coffee Break .....	3,433.08
Thursday Lunch .....	20,598.48
Thursday Morning Coffee .....	5,721.80
Thursday Night Round Table .....	<u>118.60</u>
Total Hotel .....	62,852.35
Pipe and Drape .....	2,499.00






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**PROFIT & LOSS STATEMENT**

*Continued from page 3*

Printing, Postage, & Stationary .....	436.83
Speaker Expenses .....	3,335.64
Honorarium .....	<u>1,300.00</u>
Total Speaker .....	4,635.64
Supplies .....	<u>.95.86</u>
Total Annual Conference - 2018 .....	<b>73,506.69</b>
<b>Annual Conference - 2019</b>	
Credit Card Processing Fee .....	475.44
Executive Director Expenses .....	44.74
Giveaway .....	3,346.10
Hotel Room Reservations .....	<u>1,000.00</u>
Total Hotel .....	1,000.00
Office Supplies .....	2,186.08
Printing, Postage, Stationary .....	<u>4,221.40</u>
Total Annual Conference - 2019 .....	11,273.76
Bill Porter Scholarship .....	500.00
League of Municipalities	
Exhibit Booth .....	1,600.00
Giveaways .....	218.25
Meals .....	802.64
Parking .....	70.00
Postage .....	300.00
Rooms .....	1,143.62
Travel & Tolls .....	154.48
Total League of Municipalities .....	<b>4,288.99</b>
<b>Office expenses</b>	
Annual Report .....	25.50
Credit card processing fee .....	203.78
Equipment .....	79.99
Executive Board Meetings .....	637.90
Executive Director Expenses .....	105.78
<b>Insurance</b>	
General Liability .....	2,542.15
Workman's Compensation .....	<u>257.46</u>
Total Insurance .....	2,799.61
Internet .....	277.19
Miscellaneous .....	90.99

**PROFIT & LOSS STATEMENT**

*Continued from page 5*

Mulch Brochure .....	2,390.00
NJ Labor Tax Assessment .....	9.04
Parking Permits .....	213.25
Pension - 457 Plan Admin .....	550.00
Printing, Postage, Stationery .....	1,323.17
Publications .....	3,500.00
Subscription Renewals .....	15.00
Supplies .....	815.64
Telephone & telecommunications .....	848.10
Website .....	<u>3,168.74</u>
Total Office expenses .....	<b>17,053.68</b>
<b>Salaries &amp; related expenses</b>	
<b>Officers &amp; directors salaries</b>	
Executive Director .....	<u>44,800.00</u>
Total Officers & directors salaries .....	44,800.00
<b>Payroll taxes</b>	
457(b) Pre-Tax Contribution .....	0.00
Federal Withholding .....	0.00
FICA Withholding .....	3,427.19
NJ Family Leave .....	0.00
NJ State Withholding .....	0.00
NJ Unemployment & Disability .....	<u>171.47</u>
Total Payroll taxes .....	<u>3,598.66</u>
Total Salaries & related expenses .....	<b>48,398.67</b>
<b>Travel &amp; meetings expenses</b>	
Conference, convention, meeting .....	<u>620.31</u>
Total Travel & meetings expenses .....	<u>620.31</u>
Total Expense .....	<b><u>165,995.41</u></b>
Net Ordinary Income .....	<u>38,411.78</u>
<b>Net Income</b> .....	<b><u>38,411.78</u></b>



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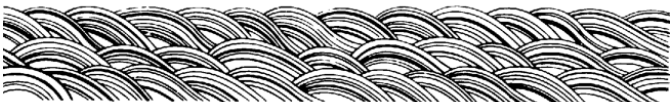
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# MANAGING WINTER INJURY TO TREES AND SHRUBS- Part I

Virginia Cooperative Extension

Virginia Tech – Virginia State University, Publication 426-500

By Diane Relf and Bonnie Appleton, Reviewed by David Close

## Introduction

It is often necessary to provide extra attention to plants in the fall to help them over-winter and start spring in peak condition. Understanding certain principles and cultural practices will significantly reduce winter damage that can be divided into three categories: desiccation, freezing and breakage.

## Desiccation

Desiccation, or drying out, is a significant cause of damage, particularly on evergreens. Desiccation occurs when water leaves the plant faster than it is taken up. Several environmental factors can influence desiccation. Needles and leaves of evergreens transpire some moisture even during the winter months. During severely cold weather, the ground may freeze to a depth beyond the extent of the root system, thereby cutting off the supply of water. If the fall has been particularly dry, there may be insufficient ground moisture to supply the roots with adequate water. Water loss is greatest during periods of strong winds and during periods of sunny, mild weather. The heat of the sun can cause stomates on the lower sides of the leaves to open, increasing transpiration. Injury due to desiccation is commonly seen as discolored, burned evergreen needles or leaves. It is worse on the side facing the wind. This can be particularly serious if plants are near a white house where the sun's rays reflect off the side, causing extra damage.

**Management:** Proper watering is a critical factor in winterizing. If autumn rains have been insufficient, give plants a deep soaking that will supply water to the entire root system before the ground freezes. This practice is especially important for evergreens. Watering when there are warm days during January, February and March is also important.

Also, mulching is an important control for erosion and loss of water. A 2-inch layer of mulch will reduce water loss and help maintain uniform soil moisture around roots.

Antidesiccant compounds are sold in many garden centers and supply catalogs, although research has shown that these compounds degrade rapidly and are of little value to homeowners.

Although it is unattractive, small evergreens can be protected by using windbreaks made out of burlap, canvas or similar materials. Windbreaks will



help reduce the force of the wind and shade the plants. They can be created by attaching materials to a frame around a plant. A complete wrapping of straw or burlap is sometimes used. Black plastic should be avoided as a material for wrapping plants. During the day heat builds up inside, increasing the extreme fluctuation between day and night temperatures and speeding up growth of buds in the spring, making them more susceptible to a late frost. If plants require annual protection measures to this extent, move them to a more protected location or replace them with hardier specimens.

Frost heaving occurs when alternate freezing and thawing of the soil pushes small, shallow-rooted plants out of the ground. This prevents the plants from having firm contact with the soil and exposes the roots to wind desiccation.

**Management:** Mulch acts as a buffer to the soil. It reduces the amount of alternate freezing and thawing of the soil which causes frost heaving.

If a plant has been heaved from the ground, replant it as soon as the soil thaws. Unless the root system is small enough to be pushed easily with the fingers into the soft soil, dig up the plant, retaining as much of the root system as possible within a soil ball and replant it.

**Freezing:** Freezing injury can take several forms.

New growth stimulated in early fall by late summer fertilization or pruning may not have had time to harden off sufficiently to survive sudden drops to below freezing. Ice crystals rupture cell walls; this damage will show up as dead branch tips and branches.

**Management:** Fall fertilization after plants are dormant but before soil temperature drops below 45° F, may be of value in preventing winter damage. Avoid late summer or early fall fertilization while plants are still active, as this stimulates growth, which is easily killed by cold.

A sharp temperature change between day and night may freeze the water within the trunk of a tree, causing it to explode or split open in a symptom called frost cracking. If not severe, these cracks seem to close when warm weather arrives, although the wood fibers within may not grow back together. This is sometimes called southwest injury because it is commonly found on the southwest side of shade trees where warm afternoon sun creates further extremes in the day and night temperatures. A similar phenomenon with many shrubs is called bark split. Particularly susceptible are many cultivars of evergreen azaleas. In most cases plants close over the cracks adequately, with no treatment necessary.

**Management:** Avoid wounding trees when they are young.

Wrapping trunks with burlap strips or commercial tree wrap, painting white or even shading with a board may prevent bark splitting. All of these methods reflect sunlight and reduce the building of heat during the day, thus reducing the temperature fluctuations that cause splitting. Any wraps should be removed, after one season, to prevent insect or moisture damage.

The sun can also prematurely stimulate the opening of flower or leaf buds in the spring. Freezing night temperatures might kill these buds. Bud injury due to the cold temperatures of winter also occurs in the dormant state on more tender trees and shrubs. Flowering shrubs may lose their flower buds, although their leaf buds usually survive. Even with good management, injury to young growth or insufficiently hardened tissues may still occur as a result of unusual weather patterns. Little can be done to prevent injury in these instances.

Root injury may occur in containers and planters or balled and burlapped (B&B) stock, which has been left, exposed during the winter. Lethal root temperatures can start at 280F on some species. Containerized or B&B plants should be placed in protected areas, sunk not the ground, grouped together or heavily mulched to avoid low temperature injury to roots.

Rapid temperature changes can cause tree bark to split. This is known as frost cracking or southwest injury.

### **Breakage**

Breakage of branches is usually related to snow and ice. Two causes of damage by snow and ice are weight and careless snow removal. High winds compound the damage done to ice-covered plants. Damage may take the form of misshapen plants or may actually result in broken branches and split trunks.

**Management:** Proper pruning at an appropriate time throughout the year is effective in reducing damage by ice and snow. Particularly important is the removal of any weak, narrow-angled, V-shaped crotches. Avoid late-summer pruning that stimulates new, tender growth and reduces the supply of nutrients available to the plant through the winter.

Snow collecting on shrubs should be removed with a broom. Always sweep upward with the broom to lift snow off. When the branches are frozen and brittle, avoid disturbing them. Wait until a warmer day or until ice naturally melts away.

### **Planning Ahead to Avoid Damage**

Much of the disappointment and frustration of winter-damaged plants



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can be avoided by planning ahead.

**Select Hardy Plants**

Grow plant materials that are native or are known to be winter hardy in your area. Avoid planting exotic species north of their plant hardiness zones unless unique micro-climates in the landscape are such as to guarantee winter survival.

**Select an Appropriate Site**

When planting broadleaf evergreens that are known to be easily injured, such as some varieties of rhododendron, azalea, camellia, daphne and holly, select a location on the north, northeast, or eastern side of a building or other barrier where they will be protected from prevailing winds and intense winter sun. These exposures will also delay spring growth, thus preventing late spring frost injury to new flower growth.

**Avoid Low Spots and Roof Overhangs**

Avoid low spots that create frost pockets and sites that are likely to experience rapid fluctuations in temperature. Since heavy snow and ice can cause a lot of damage to branches and trunks, it is important that plants be placed away from house eaves and other areas where snow or ice is likely to collect and fall or slide onto the plants.

**Promote Healthy Plants**

Plants that are diseased or deficient in nutrients are more susceptible to winter injury than strong, healthy plants.

*To be continued in the next issue*

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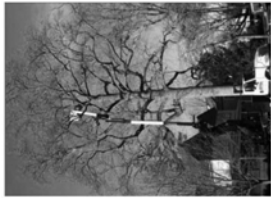
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