



IN THIS ISSUE

- Fall Foliage
- Soil Fertility
- The Benefits of Mulching
- And Much More!

Harnessing Green Technology for a Greener Planet

In the pursuit of a more environmentally conscious future, homeowners, property managers, and landscape professionals are embracing green industry standards and harnessing the potential of emerging green technology innovations.



Paving the way for a greener and more sustainable future

From smart irrigation to mulching and composting, these innovative solutions offer benefits to both residential and commercial properties.

CONTINUED INSIDE

TIPS FROM THE TOP

by Carmine Schiavone, CEO

Corporate Environmental Responsibility at SavATree



Amid nationwide conversation around corporate environmental responsibility, I wanted to share with our valued customers that at SavATree, sustainability has been core to our mission for decades and continues to be a focus in how we run our operation. This article will outline a few ways we employ sustainable strategies to benefit the communities we serve.

The heart of our mission is improving the health of trees and green spaces. Their value as ecological and aesthetic benefactors cannot be overstated. From better air and water quality to energy conservation, noise reduction, and urban heat mitigation, trees offer advantages for our health, and local wildlife, too!

Healthy trees increase property values by making green spaces more beautiful and sustainable. In fact, the Arbor Day Foundation states that a tree adds over \$40,000 of community benefits in its

CONTINUED INSIDE

How and why does foliage change color in the fall?

THE COLOR-CHANGING PROCESS

Trees take water from the ground and carbon dioxide from the air, combine it with sunlight, and end up with oxygen and carbohydrates. This process is called photosynthesis, from the Greek, "putting together with light," and a molecule called chlorophyll is what makes it all possible. Chlorophyll is what produces the green pigment in foliage.

As the days grow shorter and cooler, it signals to trees to start preparing for winter by shutting down their food-making processes, resulting in chlorophyll production slowing down to a stop.

Most people don't realize that the colors yellow and orange have been present in foliage all year. While the green-hued chlorophyll is dominant during the growing season, once the chlorophyll recedes, yellow and orange become visible – creating the dazzling fall colors.

As for those reds and purples, they're created from leftover carbohydrates in the foliage. When combined with cooler temperatures and bright sunlight, they turn the foliage red or purple, depending on the tree species.

CONTRIBUTING FACTORS

Environmental conditions such as drought and excessive heat also impact foliage colors. Stressed trees often experience early leaf drop, limiting their contribution to the fall color display. Keeping your trees properly fertilized and irrigated during the spring and summer will help to maximize their autumn potential.

Foliar diseases contracted during the spring and summer months can reduce or eliminate fall color displays. These diseases must be treated preventively to reduce their impact during the fall foliage season.

While the phenomena of foliage changing colors is a scientific marvel, many wonder why trees need to drop foliage at all. Leaf tissues are incredibly tender and would freeze in the winter due to their moisture content. This would cause incredible stress to the tree, so rather than expending its limited energy during the winter dormant season, the tree sheds its foliage beforehand.

As for conifer trees, they typically lose some of their older, less efficient needles every fall to make room for new growth in the spring. Needles often turn yellow or brown, which can be a sign of disease and infestation. However, if the coloration appears in the late summer/early fall, chances are it's part of the process all conifer trees experience to encourage new growth.

Additionally, the needles on conifer trees are covered with a heavy wax-like coating and have unique physical and chemical properties that help them resist freezing and emerge from the winter months intact.

Fall fertilization performed by a certified arborist can help enrich trees' root systems, enhance their overall health, and prepare them for an even more vibrant display next year.

TIPS FROM THE TOP (CONTINUED FROM COVER)

lifetime by removing about 48 pounds of carbon annually and retaining up to 100 gallons of ground water otherwise lost to runoff.

SavATree recognizes trees' crucial role in cooling and shading amid global heatwaves. According to the Arbor Day Foundation, trees have the remarkable ability to lower urban temperatures by 10°F by shading homes and releasing vapor into the air through their leaves. The International Society of Arboriculture further notes that deciduous trees "cool homes in the summer and allow the winter sun to heat homes when they lose their leaves," reducing the need for heating and cooling systems by up to 25%.

In the effort to further reduce our carbon footprint, we've shifted to smaller truck engines for fuel-efficiency, cutting greenhouse gas emissions. We also offer eco-friendly plant health care programs that boost soil health and aid vital pollinators like bees and butterflies.

SavATree offers tree preservation solutions to municipalities such as mapping canopy change over time, which provides insights on how trees are succeeding in the landscape, health optimization, and tree planting strategies to support urban resilience.

For example, SavATree completed an evaluation of trees along the High Line Canal, an astonishing 71-mile-long park that weaves through the Denver metropolitan area. We strove to attain balance between water infrastructure improvements and preservation of the green oasis that the High Line Canal offers the Denver community.

We are continuing our work with ever more communities around the country as we know that maximizing tree canopy substantially improves air quality, removes particulate matter, and makes our communities better places to live.

At SavATree, sustainability is more than just a goal – it is core to who we are as a company. We will continue to seek ways to propel our organization to the forefront of corporate environmental responsibility in the green industry, and I look forward to sharing updates on our progress.

Sincerely,



Carmine

The Link Between Soil Fertility and a Thriving Landscape

To achieve lush gardens and flourishing lawns, the top priority lies at the very bottom: the soil.

Soil fertility serves as the backbone of any successful landscape. It is the soil's ability to provide the essential nutrients that promote robust plant growth and overall health.

Fall is a great time to improve soil fertility and build resistance to stressful weather conditions.

Did you know that tree root growth occurs in the fall? While it appears that trees become dormant during the winter, there is still activity going on below the ground. We recommend fertilization applications during this time of year to increase tree root mass when the soil and roots are likely to respond best.

Having the ideal soil pH level also helps plants and lawns better absorb nutrients while keeping unwanted weeds at bay. Additionally, ideal pH levels increase the population of beneficial microbes while loosening the ground for proper water penetration and airflow to the root system.

To have the soil on your property tested, contact your local SavATree branch today.

Your landscape professional will then provide a full report of your soil's pH levels and what steps (if any) are necessary to help improve the overall soil makeup.



The soil's pH level is often a result of geographic location and environmental conditions. Areas with heavy rainfall and poor drainage are likely to have acidic soil, while soils in drier climates tend to be alkaline.

The first step is to have an expert arborist perform a soil analysis to identify the most effective fertilization applications and soil amendments for the unique conditions of the landscape.

- **ArborKelp®** SavATree's organic sea kelp-based biostimulant that promotes healthy root growth, improves soil structure, and augments soil microbial activity essential for nutrient absorption.
- **Organic Soil Enhancer** is a treatment that incorporates carbon-rich liquid organic matter designed to rebuild the organic profile of your soil. Resulting benefits include enhancing soil texture and drainage while fostering the growth of beneficial soil microorganisms.
- **Mycorrhizae** are essential fungi that form symbiotic relationships with plant roots to increase nutrient and water availability, increase disease resistance to soil-borne pathogens, and protect vulnerable root tips during drought.

Harnessing Green Technology

CONTINUED FROM COVER

Smart irrigation systems adjust watering schedules based on weather conditions and soil moisture levels, which ensures that plants receive the optimal amount of water, preventing overwatering and waste.

Rainwater harvesting involves collecting rainwater from rooftops and storing it for later use in irrigation. You can capture rainwater by installing rain barrels or larger cisterns, reducing the reliance on potable water for landscape irrigation.

Soil moisture sensors enable more efficient irrigation practices by providing real-time data on soil moisture levels. The sensors help to avoid overwatering or underwatering and promote water conservation by ensuring plants receive the right amount of water at the right time.

Mulching helps conserve soil moisture by reducing evaporation, which reduces the watering needs of your plants and suppresses weed growth. Additionally, organic mulches enrich the soil with valuable nutrients and improve overall soil and plant health.

Composting is a great way to enrich soil with added nutrients and organic matter. Recycling organic materials like kitchen scraps and yard waste will help improve soil structure naturally and promote healthy plant growth.

Drought-resistant landscaping involves using native and drought-tolerant plants that require minimal watering. This approach is especially valuable in regions prone to frequent droughts, and offers several benefits, such as water conservation, stronger resistance for plants during dry conditions, less maintenance, and reduced water runoff.

Renewable energy advancements such as wind and solar panels provide clean and sustainable sources of electricity, reducing greenhouse gas emissions, and air pollution.

Organic fertilizers and pest control solutions that are derived from natural sources provide environmentally sensible options for plant care. Organic fertilizers nourish the soil and promote long-term fertility, while organic pest control methods target pests without harming beneficial organisms and minimize environmental impact.

Green technology is revolutionizing landscape care, empowering homeowners and property managers to create beautiful, thriving outdoor spaces while embracing environmentally sensible practices.

Sustainable solutions are becoming more accessible than ever before. You can have a picturesque landscape that enhances the property's aesthetic appeal and also supports a healthier planet.

For expert guidance on smart and sustainable landscape care, SavATree stands ready to provide recommendations tailored to your specific needs. We can help your outdoor spaces flourish while contributing to a greener, more sustainable future.



The Secret to Thriving Trees and Lush Landscapes: MULCHING

Our natural organic mulch products may be the single best thing you can do for your trees and shrubs this fall.

We are often asked, "What is the one thing that I can do to benefit my landscape assets?"

While proper watering is first and foremost, proper mulching is a close second. Colorado landscapes are typically a high clay soil with extreme temperature fluctuations peppered with periods of dry shoulder seasons. Proper mulching addresses all of these issues successfully and is an easy and relatively inexpensive method of improving landscape health.

Our Sopris Organic Mulch products are made on site at our locations and are the result of the local plant material we process. We take the wood waste produced from local landscapes and process it into a high-quality mulch product. This material consists of the organic material of trees and provides immeasurable benefits to the soil, trees and shrubs.

Just a few of the benefits include:

- Improving soil's moisture-holding capacity through the reduction of sun to the soil surface.
- Increasing soil organic matter as the material breaks down and adds carbon and humates. Much like the forest floor, the return of vital nutrients breaking down contributes to a nutrient-rich environment.
- Buffering extreme fluctuations in soil temperatures. As the sun beats down on a dry December day before dropping below zero at night, a layer of mulch can greatly reduce the severity of the soil temperature that can damage the roots of trees and shrubs.
- Suppressing and reducing weed growth that competes with healthy trees.

We offer our mulch in natural or colored options with colorants that consist of iron oxide-based food grade dyes that stand up to the test of the extreme Colorado mountain sun.

Mulching is a powerful tool in ensuring the vitality of any landscape.

Contact an arborist today to learn more about our mulching services.



LANDSCAPE CALENDAR

September

- Fortify and fertilize your lawn
- Plant new evergreen trees and shrubs
- Nourish your trees and shrubs with a deep root fertilization
- Treat trees and shrubs for late season insects
- Arrange a storm damage prevention audit
- Continue to water trees and shrubs suffering from summer stress, or contact us for winter watering services if needed
- Inject trees for next season's annual aphid control

October

- Provide supplemental watering to trees during drier months
- Mulch tree wells and beds
- Install necessary wildlife protection for trees

November

- Prune, cable, and brace trees to help reduce the risk of storm damage
- Protect susceptible evergreen plants from winter injury with antidesiccant
- Review and confirm your plant health care and lawn programs for the coming year

December / January / February

- Take advantage of frozen ground to prune accessible trees
- Prune fruit trees to enhance fruit production and reduce the spread of fire blight
- Perform maintenance pruning of shade trees and ornamentals
- Grind stumps
- Take down dead or hazardous trees

To schedule a complimentary consultation, visit savatree.com or contact the office nearest you.



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BOYS & GIRLS CLUBS

What's wrong with our aspen trees?

Almost everyone in the mountain communities of Colorado is concerned about the aspens.

Though the aspen is one of the largest and oldest organisms on the planet, it is experiencing distress from extreme weather conditions. Whether they are in individual landscape plantings or in thousand-acre stands, aspens are under attack by a variety of biotic and abiotic aggressors.

Why is one of the oldest tree species facing such decline?

Increasingly dry conditions and lack of moisture in the spring and fall, coupled with rising soil temperatures, are all contributing to the decline in our aspens. Just like humans, trees have a limited amount of energy. Drought stress for a tree is like a poor diet and little exercise for a human: it diminishes the ability to fight off disease. As the populations of tree pathogens continue to multiply, they become more aggressive and virulent, and can attack even the healthy specimens nearby.

Recommendations for maintaining your aspen trees include:

- Mulching around trees to retain soil moisture and reduce drying from extreme heat conditions
- Watering trees in fall and early spring when soil temperatures are above freezing, and when soil is dry (just a deep watering every 2-3 weeks will make a big difference)
- Applying treatments to improve soil and root health, promote resilience, and fortify stored energy reserves
- Treating aggressive pathogens in a timely manner
- Removing dead and diseased trees promptly to reduce the spread of damaging insects or diseases

Your local arborist can assess your aspen trees for signs of distress and develop a plan to help preserve them. Reach out today.

Antidesiccants will fortify trees during Colorado's challenging winter months

Evergreen trees in the mountains of Colorado have a hard life. We routinely see winds of 50 mph and temperatures of 20 below zero. The combination of cold weather and frozen ground makes it very difficult for plants to obtain the moisture they need from the soil. New plantings are especially vulnerable to stress during these challenging conditions.

Antidesiccants are designed to protect plants throughout the winter by helping to reduce water loss.

Antidesiccants consist of foliar applications that help bolster the tree's cuticle layer and prevent moisture loss through its needles. These compounds lock in moisture by creating a thin polymer barrier over the leaf stomata (the leaf's pores).

Take proactive measures to equip your trees to endure the winter. You will be rewarded in the spring!

Contact SavATree today to learn more.



Contact us for a complimentary consultation via the link below or call

1-800-341-8733



savatree.com

SavATree has local offices throughout the country.

For a complete list of locations visit savatree.com

Our services include:

Tree and Shrub Pruning
Tree and Shrub Planting
Cabling and Bracing
Tree Removals

Insect, Mite and Disease Treatments
Deer/Wildlife Repellents
Fertilization and Soil Amendments

Professional Lawn Care
Weed Control
Holiday Lighting
Organic and Hybrid Options

Consulting services:

Tree Protection & Preservation
Canopy Management
Tree Inventory / Risk Assessment
Tree & Landscape Appraisal