

TNLA GREEN

NOV • DEC 2014

THE OFFICIAL PUBLICATION OF THE TEXAS NURSERY & LANDSCAPE ASSOCIATION



POST-GAME *Report*

INCLUDING:

**TNLA Awards
Celebration**

Booth Awards

**Gift & Garden
Marketplace**

Social Events

**EDUCATION
HIGHLIGHT
REEL**

PLUS:

30 Newsbites: Jim Reaves
Honored at TSAE

31 GreenVi\$ion

37 SFA Garden Update

45 Calendar of Events



STARTING ON PAGE 6

PRSRT STD
U.S. POSTAGE PAID
SAN ANTONIO, TX
Permit No. 244



Ingredients: Grass seed, fertilizer, AquaSmart, water-efficient nozzles, smart controller, soil moisture sensors. May contain traces of water and sunshine.

*Water and sunshine may vary state to state. Please see your local branch for more details.

ASK ABOUT THE AMAZING BENEFITS OF  **AquaSmart**
A SOIL ENHANCEMENT PRODUCT


EWING
www.ewing1.com/locations

IRRIGATION & WATER MANAGEMENT PRODUCTS | TURF PRODUCTS | LANDSCAPE LIGHTING | RAINWATER HARVESTING | HARDSCAPE

TNLAGREEN

NOV•DEC 2014

FEATURES

6 2014 EXPO Post-Game Report

The Nursery Landscape EXPO is THE premier horticulture Education Conference and Tradeshow for face-to-face interaction, networking, education, buying opportunities, and professional development. This year, EXPO was held Aug. 14-16 in San Antonio at the Henry B. Gonzalez Convention. Relive the exciting event with our photo recap. Plus:

Social Events *p.10*

A Night of Mystery: TNLA Awards Celebration *p.17*

Booth Awards *p.21*

Fishing Trip Winner *p.27*

Gift & Garden Marketplace *p.27*

Thank You Sponsors *p.29*

14 2014 EXPO Education Highlight Reel

This year's EXPO Education offered three days of learning in a variety of tracks, as well as three inspiring and innovative Keynote speakers.

COLUMNS

31 GreenVi\$ion Earth-Kind® Landscape Principals II: Soil Analysis and Preparation

37 SFA Gardens Update Is Conservation Horticulture an Opportunity or a Headache?

DEPARTMENTS

30 Newsbites

41 New Members

41 Newly Certifieds

43 Classified Ads

45 Calendar of Events

46 Advertisers index



6



14



37

Texas Nursery & Landscape Association
7730 South IH-35
Austin, TX 78745-6698
phone: 512.280.5182 or 800.880.0343
fax: 512.280.3012
email: info@tnlaonline.org
www.tnlaonline.org

Stay Connected!





★ ★ ★ ★ ★ 10 Year Anniversary ★ ★ ★ ★ ★

Get in the Green!

The Workers' Comp Solution for Texas
Green Industry Businesses.

\$3,336,223

in dividends have been paid to members of the
Texas Green Industry Safety Group since 2005*

- Members retain their own experience modifier and receive a premium discount based on the group's total premium, and are eligible for potential individual and group dividends.*
- Members can earn an additional discount by participating in Texas Mutual® Insurance Company's workers' comp health care network.
- Open to qualifying wholesale and retail nurseries, landscape contractors, growers, irrigation contractors and other green industry businesses.
- **Any licensed Texas agent** can submit qualifying clients for consideration in the group.

*Past dividends are not a guarantee of future dividends, and the Texas Department of Insurance must approve all dividends.
Group underwritten by Texas Mutual® Insurance Company.

For more information visit www.tgisafetygroup.com or call 972-512-7770

*the official publication of the
Texas Nursery & Landscape Association*

NOVEMBER/DECEMBER • VOL. XVI NO. 6

OFFICERS

Chairman of the Board
Paul Tomaso, TCNP Dallas

Chairman-Elect
Johnette Taylor Dallas

Immediate Past Chairman
Mark Chamblee, TCNP Tyler

President
Amy Graham Austin

BOARD OF DIRECTORS

Region I Billy Long, TCLP San Antonio

Region II Jay Williams League City

Region III Herman Vess, TMCNP Edgewood

Region IV Jason Craven Dallas

Region V Mike Whisenand Fort Worth

Region VI Steven Akers Slaton

Region VII Todd Kinney, TMCNP Donna

Region VIII JJ McAuliffe Austin

Supplier Director Bobby Spence Fort Worth

Landscape Director
Jerry Maldonado, TCLP San Antonio

Grower Director Bill Carson Austin

Retail Director Donna Buchanan, TMCNP .. Houston

TNLA STAFF

President Amy Graham

Comptroller Jo Tucker

Accounting Assistant Trevor Peevey

**Marketing & Communications
Manager** Anna McGarity

**Director, Legislative and
Regulatory Affairs** Jim Reaves

Issues Knowledge Manager James Theiss

**Administrative Assistant –
Strategic Initiatives** Debra Allen

**Director, EXPO Operations
& Marketing** Sarah Riggins

Director, EXPO Exhibits Amy Prenger, CEM

**Business Development/
Sales Executive** Mike Yelverton

Administrative Assistant EXPO ... Dena Guerrero

**Professional Experience
Manager** Marisol Ybarra

Office Operations Assistant Nancy E. Sollohub

TNLA GREEN STAFF

Editor Anna McGarity

Graphic Designer Marie Leonard

Ad Sales Lance Lawhon

TNLA Green magazine is a member service of the Texas Nursery & Landscape Association, and is published bi-monthly. Advertising information is available from TNLA, 7730 South IH 35, Austin, Texas 78745, online at www.tnlaonline.org, or by calling 800-880-0343. TNLA office hours are weekdays, 8:30AM - 5 PM CST. © 2014 Texas Nursery & Landscape Association



*A Video
Message from
Amy Graham,
TNLA President*

Use Facebook to Stay Connected With Us

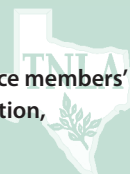


Post to our wall, check out photos, and see who likes what!

► **"Like" Texas Nursery & Landscape Association**

MISSION STATEMENT

The Texas Nursery & Landscape Association's mission is to enhance members' business success through legislative/regulatory advocacy, education, networking, and promotion of professionalism.





POST-GAME *Report*



The Nursery/Landscape EXPO is THE premier horticulture Education Conference and Tradeshow for face-to-face interaction, networking, education, buying opportunities, and professional development. This year's EXPO was held Aug. 14-16 in San Antonio at the Henry B. Gonzalez Convention Center and was an action-packed three days where everyone was a winner. Just flip through our Post-Game Report for a visual recap of the Game's excitement!



The Winner's Circle

EXPO HIGHLIGHTS AT-A-GLANCE:

EDUCATION was held on all three days with more than 100 CEUs offered by Landmark Nurseries!

3 **KEYNOTES** presentations brought record attendance

The Gift & Garden **MARKETPLACE** presented by GO TEXAN showcased gifts and a new niche of products

A beautiful Parks and Patio **DISPLAY**

Great Welcome to San Antonio **PARTY** with the Southern Drawl Band drew many together for an extra opportunity to collaborate with each other off the Tradeshow Floor see page 10.

A Night of Mystery: TNLA Awards **CELEBRATION** was filled with mystery, intrigue and lots of winners! see page 17.

Best Booth **AWARDS** See page 21.



FOR MORE INFO

PLEASE VISIT
www.NurseryLandscapeEXPO.org

For Information About Exhibit Space for 2015, e-mail

expo@nurserylandscapeexpo.org or call
800.880.0343 or 512.579.3857.

Follow Nursery/Landscape EXPO on Twitter:
@LandscapeTexas and "Like" Nursery/
Landscape EXPO on Facebook for updates
as next year's show gets closer





PAC-MAN IN THE PAC LOUNGE!

TNLA hosts a VIP lounge for donors to its Political Action Committee (PAC) every year as a thank you to all its contributors. This year, there was a friendly Pac-Man competition that got the competitive juices going!



PARKS & PATIO: ALWAYS HITTING IT OUT OF THE PARK!

Thank you to Tarrant County College for creating the design, to the TNLA Parks and Patio Task Force for all the on-site hard work, and to all the exhibitors that donated products. It was a wonderful team effort that truly paid off!

TASK FORCE

Chairman, Anne Muscat
Blooming Ideas & More
Beach City, TX

TASK FORCE MEMBERS

Charles Britton, Jr.
Britton Consulting
Lubbock, TX

MengMeng Gu
Texas AgriLife Extension Service
College Station, TX

Heather S. Hardee, TCNP
Color Spot Nurseries
San Antonio, TX

Joseph William Johnson, TMCNP
Orange, TX

Ken Morrow, TMCNP
Home Depot #565

Johnette Taylor
Roundtree Landscaping, Inc.
Dalals, TX

Sam Weger, TMCNP
Calloway's Nursery
Fort Worth, TX

Derek Whisenand
Whiz-Q-Stone
Fort Worth, TX



The Parks & Patio Crew. Front (l-r) Sam Weager, Anne Muscat, Charles Britton, Heather Hardee, Johnette Taylor, Mengmeng Gu. Back (l-r) Ken Morrow, Derek Whisenand, Laura Gruenau, Joseph Johnson.



WELCOME TO SAN ANTONIO PARTY

Thank you, Tree Town USA for sponsoring EXPO's Welcome to San Antonio Party. It was an awesome evening with casino tables and photo booth fun sponsored by TGI. The Southern Drawl Band, sponsored by OHP, Inc. were a huge hit and kept everyone dancing!



Fun Times off the TRADE SHOW FLOOR

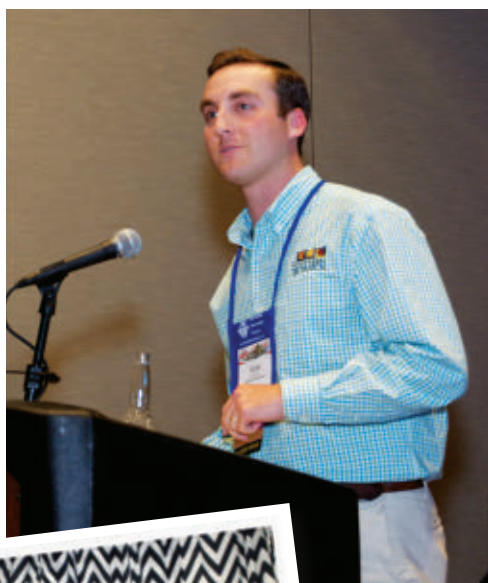
This year's EXPO featured several exciting social events after the Tradeshow Floor closed, allowing attendees to network while recharging their engines!





CERTIFIED PROFESSIONALS RECEPTION

This annual event is held in conjunction with the Nursery/ Landscape EXPO and is an exclusive party for TNLA Certified individuals and a guest. This outstanding event would not be possible without our generous sponsors: Calloway's Nursery, TNLA Region IV, Arborbrace Staking Systems, Chamblee's Rose Nursery, Hotchkiss Insurance Agency, LLC, Nicholson-Hardie, TNLA Region II, TNLA Region III, TNLA Region IV, TNLA Region V, TNLA Region VII, TNLA Region VIII



CHAIRS' RECEPTION

Chairman Paul Tomaso hosted an invitation-only reception to honor VIPs, top sponsors, key participants to TNLA Political Action Committee (PAC), and those who are active in moving Texas' Green Industry forward. It was a way to appreciate TNLA's most generous and active contributors, and to connect and network with key industry leaders. Thank you Enterprise Fleet Management for sponsoring this wonderful event!





Education

HIGHLIGHT REEL

This year's education was three days packed with learning. Each day included a Keynote speaker free for all Tradeshow attendees. This year's speakers were Chip Bell, Robert Stevenson and John Kennedy. Each session was filled with attendees and got rave reviews. In addition to the keynotes, there were more than 25 breakout session offering more than 100 CEUs by six different accreditors! This year's education also included the TNLA Irrigation full day track. Attendees not only earned their necessary CEUs, but also got to attend the Tradeshow to maximize their time in San Antonio.





*Keynote presenter,
Chip Bell*



*Keynote presenter,
Robert Stevenson*



*Keynote presenter,
John Kennedy*





Good coverage. It's essential for growth.



With over 30 years of experience and the endorsement of the Texas Nursery and Landscape Association (TNLA), Texas Turf Irrigation Association (TTIA) and many other industry associations, we understand what it takes to protect your green industry business. We'll make sure you have the coverage you need to protect your business and that it's cost-effective. Both are good objectives for growth. As a Trusted Choice® independent agency, we'll access many of the nation's leading insurance companies to provide all the coverage your business needs in one strong yet cost-effective solution.



Call **800-899-9810** or visit **www.hiallc.com** today
to schedule a no-obligation consultation.

Online at **www.hiallc.com**



HOTCHKISS
INSURANCE AGENCY, LLC

Experience, Choice and Service

30 years of experience and the nation's leading insurance companies **all under one roof - www.hiallc.com**

General Liability » Business Property » Workers' Compensation » Equipment » Pesticide & Herbicide » Business Auto
Employee Benefits » Pollution Liability » Nursery Inventory » Umbrella » Bonds and more!

A Night of Mystery

TNLA AWARDS CELEBRATION

This year we had an exciting and mysterious evening at our Awards Celebration. It was held on Friday, August 15th at the Henry B. Gonzalez Convention Center in San Antonio. It was hosted by Chairman of the Board Paul Tomaso who helped honor all the deserving award winners.



ARP AWARD: WINNER

James Wilhite, Wilhite Landscaping

The highest honor granted to an individual by TNLA and given annually since 1942, this award is given to a nursery professional that has made outstanding contributions to the nursery/landscape industry. These individuals exemplify the Association's ideals: innovation, service, and highly ethical behavior in both business and personal lives.

MANY THANKS to our sponsors for making this event possible:

Texas Green Industry Workers' Compensation Group, State Fair of Texas, Calloway's Nursery, KBW Supply, Southern Botanical, Wilhite Landscape & Lawn Care, Roundtree Landscaping, Inc., Southwest Wholesale Nursery, Greater Texas Landscapes



While everyone took home new contacts, great memories and a satisfied appetite, only a select few garnered the top prizes within their respective project categories. Even more impressive were the credentials of the “Big Four” award recipients who shined only slightly brighter than their impressive credentials and accolades while taking home the highly coveted Arp, Young Leader, Summit and Grand Platinum Awards. Congratulations to all who participated.



▲ SUMMIT AWARD WINNER: KBW Supply

The highest honor bestowed on a member firm recognizing them for exceptional contributions to TNLA and the industry, the Summit Award exemplifies innovation, service, and highly ethical behavior in the way a business conducts its affairs. Summit Award Finalists: Landmark Nursery, Living Earth and KBW Supply.



Jim Prewitt, Landmark Nursery



Gary Kinney, KBW Supply



Neil Sperry, Landscaper & Journalist

HONORARY LIFETIME MEMBER A person who, in the opinion of the Board of Directors, has rendered unusual or distinguished service to the nursery or landscape industry or in the general field of horticulture.



▲ GRAND PLATINUM WINNER

ValleyCrest Landscape Development for the Dallas Arboretum Rory Meyer's Adventure Garden. Presented to Matt Fisher by Parks & Patio Chair, Anne Muscat



▲ YOUNG LEADER AWARD WINNER

Jade Hopson, Circle G Nursery presented by Jared Pyka, 2011 Young Leader Award winner. This honor is bestowed upon a young TNLA member (under 41), who, through their efforts to the Association, the industry and the community, has already made a significant and noticeable impact.

TEXAS EXCELLENCE IN LANDSCAPING (TEIL) AWARDS

These accolades recognize excellence in landscape design, installation, maintenance, and special landscape projects. This program reflects the Association's commitment to creating and preserving the integrity of the Texas landscape and recognizes landscape and lawn care professionals executing superior projects by encouraging use of quality materials, workmanship, and professionalism. Below is a complete list of the winners:

GOLD

AJ's Landscape & Design Inc. - Rieb Residence
 Clean Scapes, LP - Boot Ranch
 Lambert Landscape Company - Classic Contemporary Retreat
 Southern Botanical - Rose Residence
 ValleyCrest Landscape Development - Dallas Arboretum
 Rory Meyers Children's Adventure Garden
 ValleyCrest Landscape Development - Klyde Warren Park
 ValleyCrest - Nustar Energy Campus Water Feature

SILVER

Absolutely Outdoors - Jefferson Project
 AJ's Landscape & Design Inc. - McPhail Residence
 Clean Scapes, LP - Hill Country Galleria
 Clean Scapes, LP - River Place Corporate Center
 Greater Texas Landscape Services - Austin Center
 Lawns of Dallas - McCann Residence
 Lawns of Dallas - McEvoy Residence
 Lawns of Dallas - Bent Tree Estate
 Metheny Commercial Lawn Maintenance, Inc. -
 George W. Bush Presidential Library
 Roundtree Landscaping, Inc. - Townhome Residence
 Southern Botanical - Royal OaksCountry Club
 Southern Botanical - Park Cities Estate
 Site Planning Site Development - 290 John Carpenter
 Courtyard Renovation
 ValleyCrest Landscape Maintenance - Research Park Place

BRONZE

AJ's Landscape & Design Inc. - Vickery Residence
 Clean Scapes, LP - Research Park Plaza, Buildings III & IV
 Greater Texas Landscape Services - 816 Congress Terrace
 Site Planning Site Development - TRT Holdings Headquarters
 Southern Botanical - Katy Trail Outpost
 ValleyCrest Landscape Development - Circuit of The Americas

HONORABLE MENTIONS

Absolutely Outdoors - Santamaria Residence
 Absolutely Outdoors - Wagner Residence
 AJ's Landscape & Design Inc. - Heights Retreat
 Clean Scapes, LP - Silverado at Brushy Creek
 Clean Scapes, LP - Southpark Meadows
 Greener Pastures Landscape - Dallas Presbyterian Hospital
 Greater Texas Landscape Services - Tarry House
 Sunscape Landscaping - Serene Hills HOA (maintenance)

"A PARTNERSHIP BUILT ON TEAMWORK"



*Cirilo Mondragon, CRU
General Superintendent with
multiple CRU Operators.*

Central Road and Utility (CRU) has been in business for 10 years and has grown from six employees to 46. "Renting machines saves us time and money, especially when one of our machines is not working properly. Renting also helps us free up assets. Renting machines allows us to eliminate repair and haul expenses," states Cirilo.

CRU currently rents a track loader, excavator, dozer, skid steer loader, wheel loader and a water truck from The Cat Rental Store. CRU also owns six Cat® machines. "My dealer treats me like I am family. If I need parts or service, I can count on them," states Cirilo.

Stop by your local Texas Cat Rental Store for quick, easy, hassle-free rentals of the equipment you want, when you need it.

HOLT Rental Services
Locations throughout Central,
South, North and Northeast Texas
holtcat.com
San Antonio, Texas
210-333-8505

MUSTANG Rental Services
Locations throughout
Southeast Texas
www.mustangcat.com
Houston, Texas
713-838-7368

WAGNER Rents
Service to the El Paso Region
www.wagner-rents.com
El Paso, Texas
915-771-6000

**WARREN
Rental Services**
Locations throughout West Texas
www.warrencat.com
Midland/Odessa
866-2WARREN



BOOTH AWARDS

Beginning with the 1967 Tradeshow held in Austin, Texas, Nursery/Landscape EXPO began distributing awards to Exhibiting companies with the most attractive displays. ►



SMALL GREENLINE:

Seville Farms
Lillian, TX



SMALL HARDLINE:

D'Barro Pottery
Woodlands, TX

BOOTH AWARDS

There are a total of six awards distributed. Of those awards, one hardline and one greenline award is designated for Small Exhibits (those with one to three exhibit spaces), one hardline and one

greenline award is designated for Medium Exhibits (those with four to six exhibit spaces) and one hardline and one greenline is designated for Large Exhibits (those with seven or more exhibit spaces).



MEDIUM GREENLINE:

Texas A&M AgriLife
Research Dallas
Dallas, TX



MEDIUM HARDLINE:

Fiore Stone, Inc.
Colton, CA

Selection criteria for booth award recipients consist of attention getting, product promotion, design/graphics effective in conveying message, booth size versus amount of product displayed – enough

to effectively sell targeted products, and full compliance with the Nursery/Landscape EXPO Display Specifications. This year's winners were:



LARGE GREENLINE:

Color Spot Nurseries
San Antonio, TX



LARGE HARDLINE

Living Earth
Dallas, TX

Don't Miss Year-End Tax Benefits On A New Chevy

Business Owners & Self-Employed

- WRITE OFF \$25,000 ON A SINGLE VEHICLE
- UP TO \$500,000 ON MULTIPLE VEHICLES
- **ALL ON THIS YEAR'S TAXES**

Call The Thompson Group

800-371-1560

LET US SHOW YOU HOW



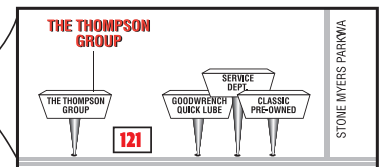
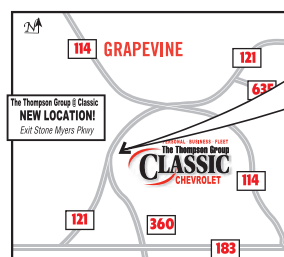
On select Chevy vehicles purchased before December 31, 2014.

PERSONAL · BUSINESS · FLEET

The Thompson Group

CLASSIC CHEVROLET

121 just north of the Stone Myers Pkwy exit



**121 just north of
the Stone Myers Pkwy exit**
metro **817-410-1560**

FIND NEW ROADS



**BUSINESS
ELITE**

The Largest Fleet & Commercial Dealership in the Nation

Founded by **Ken Thompson** in 1978, The Thompson Group at Classic Chevrolet is the largest volume commercial dealer in the country. Now located at a state-of-the-art facility on Highway 121 just north of the Stone Myers Parkway, The Thompson Group stocks over **2000 NEW CHEVROLETS** including over 500 commercial and upfitted vehicles. Situated on 9 acres, The Thompson Group features an 8500 square foot showroom, a dedicated service department, parts department and Quick Lube facility. The service department is highly specialized in servicing commercial vehicles with six super-sized 28' bays. Our professional staff has the knowledge and resources to help keep your business competitive and profitable.



ClassicFleet.com

COMMERCIAL • FLEET • CREDIT UNION

DALLAS MARKET CENTER OF *it all*

Dallas Total Home & Gift Market
January 14-20

featuring hundreds of outdoor
home furnishing and gift lines



Uncover hidden profits at Dallas Market Center, the destination for Outdoor,
offering more new lines of furniture, decorative accessories and gifts.

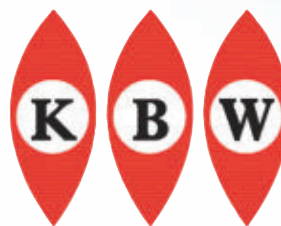


dallasmarketcenter.com | 214.744.7444



MEET THE TNLA FISHING ADVENTURE

Winner!



www.kbwsupply.com

This year KBW Supply generously donated an Offshore Snapper Fishing Charter for one lucky winner and 5 of his friends! More than

250 people entered at the TNLA booth over the three days of EXPO, but Emmanuel Atilano was the lucky winner and is excited about the adventure! Congratulations Emmanuel - we can't wait to see some pictures from the trip!



THE *Gift & Garden* MARKETPLACE

Scored Big with Attendees!



GO TEXAN.

This was the second year for the Gift and Garden Marketplace at the EXPO and it was even more impressive than

last year! There were 25 booths (10 more than last year!) showcasing their unique products and gifts. Thank you to our Gift and Garden Marketplace partner: Go Texan.



Save the Date!

Nursery/
Landscape

EXPO15



AUGUST 13-15, 2015
DALLAS, TEXAS

KAY BAILEY HUTCHISON CONVENTION CENTER



Sponsors

NURSERY/LANDSCAPE EXPO WOULD LIKE TO THANK ALL OF OUR SPONSORS FOR THEIR GENEROUS CONTRIBUTIONS!



EXPO Partners:



Applied Polymer Systems
Arborbrace Staking Systems
Calloway's Nursery
Chamblee's Rose Nursery
Enterprise Fleet Management
Everris NA Inc
Harry's Greenhouse, Inc.

Horticultural Marketing & Printing
Jefferson Bank
Maldonado Nursery & Landscaping
McCourt & Sons Equipment, Inc.
Mortellaro's Nursery
Native Texas Nursery
Nicholson-Hardie

Ran-Pro Farms
State Fair of Texas
TNLA Region 1
TNLA Region 2
TNLA Region 3
TNLA Region 4
TNLA Region 5
TNLA Region 7
TNLA Region 8

Newsbites

TNLA's Jim Reaves Honored at TSAE



Jim Reaves giving his acceptance speech for the Professional Excellence Award at TSAE

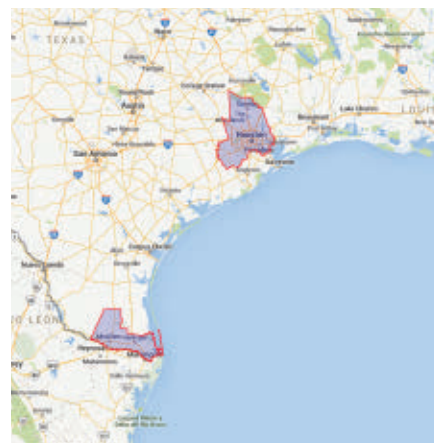
OUR VERY OWN Jim Reaves, Director of Legislative & Regulatory Affairs, was honored with the Professional Excellence Award by the Texas Society of Association Executives (TSAE) at their annual conference in Ft. Worth on September 8th. The Professional Excellence Award recognizes individuals who have made exceptional contributions to their association and demonstrate abilities for continued high levels of achievement in the

field of association management. Jim was nominated by President Amy Graham for his tireless contribution to the Association and its members. Jim works throughout the legislative session to ensure TNLA is an active part of all conversations that affect its members, as well as working outside the capitol grounds on issues like Citrus Greening, Immigration and Labor Reform (both on state and federal level), transportation and the Texas drought. As if that weren't enough, he also is an active member of Texas Water Smart coalition and manages the TNLA PAC. Of the many benefits TNLA offers its members, Jim's work has been sited time and time again as one of the most important.

Please join us in congratulating Jim on this well-deserved honor!



Jim and his support system of TNLA staff and family (l-r)



New Citrus Green Detected in Ft Bend & Montgomery Counties

ON SEPTEMBER 18, 2014 TNLA was notified that positive detections of citrus greening were found in Fort Bend and Montgomery Counties. The former Harris County Quarantine is now called the Gulf Coast Quarantine. If you grow, sell or plant citrus trees in any of these three counties, effective now, your products are on a "stop sell" order by the Texas Department of Agriculture (TDA). If you move one of these trees you are in violation of the quarantine and could be assessed a fine up to \$5,000 a tree.

PLEASE NOTE: All Citrus Greening Quarantine compliance agreements held in Harris County are still valid. Nothing has changed for you. Growers outside of Harris County with compliance agreements are still allowed to ship citrus into Harris County if the recipient also has a compliance agreement.

For more information, visit the TNLA Green Talk blog at tnlagreentalk.blogspot.com

GreenVi\$ion

Earth-Kind® Landscape Principals IV-2: Appropriate Plant Section for Salinity

by Mengmeng Gu, Ph.D.



Mengmeng Gu, Ph.D. is an Assistant Professor/Extension Specialist at TAMU. She received her BS in landscape horticulture and MS in ornamental horticulture from Beijing Forestry University

We'll focus on the fourth aspect of seven Earth-Kind landscape principals in this article:

- Planning and design
- Soil analysis and preparation
- Practical turf areas
- **Appropriate plant selection**
- Efficient irrigation
- Use of mulches
- Appropriate Maintenance.

Why Is Salinity An Issue In Urban Landscape?

Water shortages and poor water quality are critical issues in many regions in the United States. With a rapidly increasing population and diminishing water supply, the competition for fresh water among agriculture, industry, urban and recreational users has become intense. Alternative water sources, such as municipal reclaimed water, has long been used for irrigating golf courses, lawns, parks, and street medium in southwestern states of United

States where high quality water supply is limited. In recent years, the use of reclaimed water irrigation has expanded to urban landscapes and suburban agricultural production, including food crops in California and Florida.

Have you heard of 'toilet to tap' in Texas? CBS News reported this on July 10, 2014 about the Texas Commission on Environmental Quality approving Wichita Falls' proposal for a toilet-to-tap reuse program for up to six months. Wichita Falls is the second city in the Lone Star State reusing treated wastewater (aka reclaimed water) to bolster drinking supplies, after Big Spring, whose spring dried up 90 years ago. This is just an extreme example of the drought conditions occurring in much of Texas and many other parts of the country.

How would that affect landscape management? We may need to think more and more about landscape irrigation using reclaimed water. It is actually already implemented in many places around Texas, where irrigation system is colored in purple.

Municipal reclaimed water, also known as recycled water, is produced at a wastewater treatment plant where treatment processes are designed to ensure that reclaimed water is safe and reliable for its intended use. Compared to potable water, reclaimed water typically has increased concentrations of salts, especially sodium and chloride. In addition, nitrogen and phosphorus are almost always present in reclaimed

(continued on page 32)



FIG. 1. Salinity in irrigation water may cause reduction in plant size of all parts of a plant, including leaves, stems, roots, and fruit, and foliar damage such as marginal leaf burn or scorching, chlorosis, leaf necrosis, and premature leaf drop. 'Titan' vinca plants in this picture were irrigated with tap water, and at 2.8, 4.0, 5.1, and 7.4 dS-m-1 from left to right.

(continued from page 31)

water, which can benefit plants. The major concern of using municipal reclaimed water for irrigating landscapes with multiple species is the elevated salinity, which causes foliar salt injury or even death on sensitive plants. The salinity of reclaimed water depends on the source of water and treatment. Therefore, proper plant selection and irrigation management is the key to successfully use municipal reclaimed water for urban landscape irrigation.

Salinity definition and measurement. Salinity is defined as the concentration of dissolved mineral salts found in waters or soil solutions. The individual chemical constituents that contribute to salinity in waters include potassium (K⁺), calcium (Ca²⁺), magnesium (Mg²⁺), sodium (Na⁺), chloride (Cl⁻), bicarbonate (HCO₃⁻), nitrate



FIG. 2. *Black-eyed susan, a very drought tolerant plant, had foliar salt injury when irrigated at 3.2 dS-m-1, and all plants were dead by the end of the growing season when irrigated with saline solution at EC of 5.4 dS-m-1. All other nine species did not exhibit any severe salt damage as seen in black-eyed susan.*

(NO₃⁻), sulfate (SO₄²⁻), boron (B), aluminum (Al³⁺), and silica (SiO₂). Overall salinity is reported as the concentration of total dissolved solids (TDS) and expressed in mg·L⁻¹. TDS is obtained by evaporating a sample of water or soil solution down to dryness and weighing the

residue. A common expression and simple measurement of overall salinity in agriculture and horticulture is the determination of electrical conductivity (EC) of a water or soil/substrate extract (ECe).

The ability of a water, or solution, to

COME GROW WITH US



Magnolia
Gardens
Nursery



Plants For Texas®

Texas Born

Texas Tested for Texas Gardens™
www.plantsfortexas.com

www.magnoliagardensnursery.com

1-800-931-9555

Mention This Ad for \$25.00 Off Your Next Order!

conduct electricity is directly related to its concentration of salts, and the units to report EC are mmhos-cm-1 or dS-m-1 (same unitary value). While there is no exact relationship between TDS and EC, there are some approximate conversion factors. For waters or solutions with EC up to 5 dS-m-1, TDS is approximated by multiplying EC value (in dS-m-1) by 640, and by 800 for more saline solutions (>5 dS-m-1). TDS of fresh water is less than 500 ppm or EC<0.8 dS-m-1. EC of reclaimed water is usually 2 to 3 times that of potable water, depending on location and treatment.

The measurement of EC in waters is straightforward, but becomes more involved when determining it in soil solution. The most widely used method to determine EC of soil solution involves its extraction from a saturated paste or media extract, requiring the collection (destructive procedure) of a representative sample of soil or substrate from the root zone. Other procedures to evaluate the EC of the soil solution in the root zone of plants and crops include 1:2 and 1:5 dilutions (soil to distilled or de-ionized water ratios, on a v/v basis), the pour-through technique, and the use of various extraction devices such as suction cups or samplers. The EC values obtained from each soil solution extraction method have to be diagnosed with their specific and respective interpretative scales or guidelines.

Salinity is not a static property of the soil solution. It is strongly and dynamically influenced by soil moisture content, which changes both spatially and temporally. The concentration of dissolved salts does not change in direct proportion to changes in soil moisture content due to solubility, (continued on page 34)

Table 1. Salt tolerance of selected bedding plants.

Botanical name	Common name	Cultivar	Salinity Tolerance
Angelonia angustifolia	Angelonia	Lavender Pink	MT
A. angustifolia	Angelonia	Purple	MT
A. angustifolia	Angelonia	White	MT
Capsicum annuum	Ornamental pepper	Black Pearl	M
C. annuum	Ornamental pepper	Calico	M
C. annuum	Ornamental pepper	Purple Flash	MS
C. annuum	Ornamental pepper	NuMex April Fool's day	M
C. annuum	Ornamental pepper	NuMex Christmas	MS
C. annuum	Ornamental pepper	NuMex Easter	M
C. annuum	Ornamental pepper	NuMex Halloween	M
C. annuum	Ornamental pepper	NuMex Cinco de Mayo	M
C. annuum	Ornamental pepper	NuMex Memorial Day	MS
C. annuum	Ornamental pepper	NuMex Thanksgiving	M
C. annuum	Ornamental pepper	NuMex Twilight	M
C. annuum	Ornamental pepper	NuMex St. Patrick's Day	M
C. annuum	Ornamental pepper	NuMex Valentine's Day	M
Catharanthus roseus	Vinca	Rose	M
Gomphrena sp.	Gomphrena	Fireworks	MT
Helenium amarum	Helenium	Dakota Gold	MT
Helichrysum petiolatum	Licorice Plant	Silver Mist	MT
Lupinus havardii	Big bend bluebonnet		M
L. texensis	Texas bluebonnet		MT
Petunia x hybrida	Petunia	Baby Duck Yellow	MT
P. x hybrida	Petunia	Mirage Rose	MT
P. x hybrida	Petunia	Spreading Rose	MT
Plumbago auriculata	Plumbago	Escapade Blue	MT
Zinnia marylandica	Zinnia	Zahara Coral Rose	S
Zinnia marylandica	Zinnia	Zahara Fire	S
Zinnia marylandica	Zinnia	Zahara Rose Starlight	S
Zinnia marylandica	Zinnia	Zahara Scarlet	S
Zinnia marylandica	Zinnia	Zahara White	S
Zinnia marylandica	Zinnia	Zahara Yellow	S
Z. maritime	Zinnia	Solcito	S

T: tolerant; plants did not have any visual salt injury with minimum growth reduction at electrical conductivity of irrigation water at 12 dS-m-1 or above.

MT: moderate tolerant; plants did not have any visual salt injury with minimum growth reduction at electrical conductivity of irrigation water at 4 to 6 dS-m-1 or above.

M: moderate tolerant; plants had minimum visual salt injury and acceptable growth reduction at electrical conductivity of irrigation water at 3-4 dS-m-1.

MS: moderate sensitive; plants exhibited salt injury and growth reduction at electrical conductivity of irrigation water at 3-4 dS-m-1 or above.

S: sensitive; plants did not survive or had severe salt injury and significant growth reduction at electrical conductivity of irrigation water at 3-4 dS-m-1 or above.

(continued from page 33)

cation exchange, and ion association issues. Therefore, salinity is a dynamic property in the root zone, due to concentration of the soil solution by water extraction and selective uptake from plant roots, evaporation, and replenishment by irrigation or rainfall. It is a better idea to take multiple soil samples in representative spots of a landscape in order to learn the soil salinity.

General responses of landscape plants to salinity. Plant salt tolerance is typically defined as the ability to withstand the effects of high or increasing salinity without significant adverse effects such as growth or yield reduction, or foliar salt damage. Under saline conditions, all parts of a plant, including leaves, stems, roots, and fruit may be reduced in size. For landscape plants, the typical symptoms of



FIG. 3. Purple ice plants (*Delosperma cooperi*) is **VERY** salt-tolerant, and may not show any visual damage when irrigated with 12.0 dS-m⁻¹ for 11 weeks.

initial salt injury are stunted growth and foliar damage such as marginal leaf burn or scorching, chlorosis, leaf necrosis, and premature leaf drop. As salt stress becomes severe, older leaves show these symptoms more acutely and eventually extending to the whole plant with less green

leaves remaining in the plant. For many herbaceous species, plants may become less branched and thus few flowers (Figure 1). For flowering woody shrubs and trees, buds may fail to open or grow and branches may die.

everris.

Appearing together for the first time in a convenient, liquid pre-emergent herbicide specially formulated for nursery use—the two trusted actives found in Barricade® and Gallery®.*

Gemini™ gives you:

- A consistent and prolonged herbicide barrier
- Control or suppression of more than 125 broadleaf and grassy weeds
- A cost in use per acre that's competitive with tank mixing

Control times two.



www.kbwsupply.com

Always read and follow label directions before sale or use of this product.

*Barricade® is a trademark of a Syngenta Finance Corporation. Gallery® is a trademark of Dow AgroSciences LLC.

© 2014 An ICL Fertilizers Company, Worldwide Rights Reserved.

Salt injury symptoms are more obvious under hot, dry and windy conditions compared to cool, humid environments. This is because plants absorb more water and the evaporation rate is higher under hot, dry, and windy conditions compared to cool, humid environment. As mentioned above, soil salinity is strongly influenced by soil moisture content. The drier the soil becomes the higher the soil salinity. Therefore, plants are subject to high salinity for longer period of time under hot and dry conditions compared to cool and humid conditions.

Salt tolerance is not associated with drought tolerance. Drought tolerant plants are not necessarily tolerant to salinity. In a field salt tolerance study, ten herbaceous perennials and groundcovers (yarrow---*Achillea millefolium*, Firewheel---*Gaillardia aristata*, Homestead verbena---*Glandularia canadensis* 'Homestead', garden verbena---*G. x hybrida*, purple lantana---*Lantana montevidensis*, 'New Gold' lantana---*L. 'New Gold'*, honeysuckle---*Lonicera japonica*, rosemary---*Rosmarinus officinalis*, black-eyed susan---*Rudbeckia hirta* and spike verbena---*Verbena macdougalii*) were irrigated with tap water or saline solutions at EC of 3.2 or 5.4 dS·m⁻¹. After three months being irrigated with saline solution in a landscape setting in semi-arid climate, we found that black-eyed susan, a very drought tolerant plant, had foliar salt injury when irrigated at 3.2 dS·m⁻¹, and all plants were dead by the end of the growing season when irrigated with saline solution at EC of 5.4 dS·m⁻¹ (Figure 2). All other nine species did not exhibit any severe salt damage as seen in black-eyed susan.

In another outdoor study, several woody shrubs and trees were
(continued on page 36)

Table 2. Relative salt tolerance of selected herbaceous perennials and groundcovers.

Botanical name	Common name	Salinity Tolerance
<i>Achillea millefolium</i>	Yarrow	M
<i>Agastache cana</i>	Wild hyssop	MS
<i>Berlandiera lyrata</i>	Chocolate daisy	S
<i>Ceratostigma plumbaginoides</i>	Hardy blue plumbago	M
<i>Delosperma cooperi</i>	Ice plant	T
<i>Echinacea purpurea</i>	Purple coneflower	S
<i>Gaillardia aristata</i>	Firewheel	MT
<i>Gazania rigens</i>	Gazania	MT
<i>Lantana</i>	New gold lantana	MT
<i>L. camara</i>	Purple lantana	M
<i>Lavandula angustifolia</i>	Lavender	MS
<i>Lonicera haliana</i>	Honeysuckle	MT
<i>Penstemon eatonii</i>	Firecracker penstemon	S
<i>P. pseudospectabilis</i>	Pink showy penstemon	S
<i>P. strictus</i>	Rocky mountain penstemon	S
<i>Rosmarinus officinalis</i>	Rosemary	MT
<i>Rudbeckia hirta</i>	Black-eyed susan	S
<i>Salvia coccinea</i>	Scarlet sage	S
<i>Teucrium chamaedrys</i>	Germender	M
<i>Verbena canadensis</i>	Purple verbena	M
<i>V. hybrida</i>	Garden verbena	M
<i>V. macdougalii</i>	Spike verbena	M

For tolerance symbols: T, MT, M, MS, S, refer to the footnote of Table 1.

Table 3. Relative salt tolerance of selected ornamental shrubs and trees.

Botanical name	Common name	Salinity Tolerance
<i>Cercis canadensis</i> var. <i>Mexicana</i>	Mexican redbud	S
<i>Chilopsis linearis</i>	Desert willow	MS
<i>Elaeagnus angustifolia</i>	Russian olive	MS
<i>Fraxinus pennsylvanica</i>	Green ash	MS
<i>Prunus angustifolia</i>	Sand plum	S
<i>P. besseyi</i>	Sand cherry	S
<i>P. serotina</i>	black cherry	S
<i>Sophora secundiflora</i>	Texas Mountain laurel	M
<i>Ulmus parvifolia</i>	Chinese elm	MT

For tolerance symbols: T, MT, M, MS, S, refer to the footnote of Table 1.

(continued from page 35)

irrigated with tap water or saline solution. The drought tolerant desert willow (*Chilopsis linearis*) had defoliation when irrigated with saline solution at 4.0 dS-m⁻¹ for three months in a semi-arid climate. There are many landscape plants that are tolerant to both salt and drought stresses. For example, *Angelonia angustifolia* 'Purple', 'White', and 'Lavender', lantana 'New Gold', and Chinese elm.

Salt tolerance of landscape plants. Salt tolerance of a plant varies largely with species or even cultivars within a species. Some plants, like purple ice plants (*Delosperma cooperi*), may not show any visual damage when irrigated with 12.0 dS-m⁻¹ for 11 weeks (Figure 3). The actual response of a plant to salinity is often affected by climate conditions, type of substrate or

soil, irrigation management, and its growth or developmental stage. For each salinity level, it is possible to select a number of genotypes whose growth and/or aesthetic values are not affected or only slightly. Obviously, as salinity levels increase, the number of genotypes that can tolerate the stress becomes smaller.

Tables 1, 2, and 3 list relative salt tolerance of plants from herbaceous to woody landscape plants based on author's research results in greenhouses and field plots. Although difficult to quantify due to its dynamic nature, root

zone salinity is the actual salinity plant roots are subject to. Before using poor quality water for landscape irrigation, site assessment is needed. Well drainage is of primary importance to prevent salt accumulation in root zone. It is recommended to periodically monitor the root zone salinity to make sure no excessive salts are accumulated. In case, salts are already accumulated in the root zone, leaching salts with high quality water and improve the drainage is the only way to push salts out of the root zone. ☺

With a rapidly increasing population and diminishing water supply, the competition for fresh water among agriculture, industry, urban and recreational users has become intense.



Blue Diddley™ Vitex

This dwarf chastetree has outstanding container presentation!

Spring Meadow Nursery is your liner source for all 200+ Proven Winners shrub varieties. Call Amy today to add these profitable new plants to your production plans.

Amy Howard, 616-223-3365
www.springmeadownursery.com
800-633-8859 ext.1105



Notes from SFA Gardens

Is Redbud the New Crapemyrtle?

by Dr. Dave Creech



Dr. Dave Creech is Professor Emeritus and directs SFA Gardens, Stephen F. Austin State University, Nacogdoches, Texas

One of my friends recently asked, “Dave, are redbuds the new crapemyrtle?” Actually, I hadn’t even thought of redbuds that way. Sure, there’s an avalanche of new crapemyrtle varieties, but redbuds? Well, I got to thinking and my friend may be right. This outstanding native, a true harbinger of spring, is experiencing a growth curve of interest simply because the market is exploding with exciting new cultivars.

Mike Dirr’s 2009 Manual of Woody Landscape Plants lists over thirty varieties. Since then, the menu for redbud foliage and flower color and tree form has exploded. No doubt the introduction of gold foliated varieties has created plenty of excitement. *Cercis canadensis* ‘Hearts of Gold’ (PP17740) is a Jon Roethling introduction that features striking yellow new leaves with reddish

tints on a tree of excellent form with foliage that quickly turns green in our East Texas climate. *Cercis canadensis* The Rising Sun™ ‘JN2’ (PP 21451) is a breakthrough tricolor with new growth apricot colored maturing to chartreuse to a final deep green.

For the burgundy foliage enthusiasts, there’s plenty to choose from. While ‘Forest Pansy’ features reddish purple leaves and is a standard in the South, it tends to green up quickly and can be prone to tattered foliage. Denny Werner’s *Cercis* x ‘Merlot’ (PP 22297) is an improvement. It’s a fine vase shaped tree, a cross between *Cercis canadensis* ‘Forest Pansy’ and *Cercis canadensis* var. *texensis*, with tatter proof foliage that keeps color longer into the summer, a tree blessed with strong heat and drought tolerance.

For fans of weeping redbuds, it’s really hard to beat *Cercis canadensis* var. *texensis* ‘Traveller’, a Dan Hosage introduction. While it’s been around for years, this tree still gets an A+ for clean glossy foliage and beautiful habit. ‘Ruby Falls’ (PP22097) is another Denny Werner creation, the result of a ‘Covey’ X ‘Forest Pansy’ cross, which features a striking weeping habit with large durable leaves. For those who don’t know the parent ‘Covey’ (PP 10328), it’s also known as Lavender Twist®. It’s an introduction by Tim Brotzman of Ohio which features very large leaves, strong weeping habit, and, in our area, a tendency to sunscald major branches at the top of the tree where foliage tends to be rather sparse. Tim has recently introduced ‘Vanilla Twist’ (PP22744), which features white flowers, a weeping habit, and light green leaves.

(continued on page 38)



Cercis Canadensis Alley Cat

(continued from page 37)

While I've never met a variegated plant I didn't like, the redbuds 'Silver Cloud' and 'Floating Clouds' tend to burn in our Texas sun and the variegation can quickly fade away. In very light shade or protection from western sun, they do quite well and can be quite striking when grown well. 'Alley Cat' is new to our garden, an Allen Bush introduction, and is reported to feature more distinct variegation that won't fade or burn as the summer intensifies. Time will tell on this one.



Cercis Carolina Sweetheart

In the past year, I've run into two brand new varieties out of North Carolina that I consider real breakthroughs. Both left me stunned. One is Cercis X 'Pink Pom Poms' (PPAF), another Denny Werner breakthrough. We tested it as NC 2008-1 and it's a joint release

between NCSU and Hidden Hollow Nursery, a 'Flame' x 'Oklahoma' hybrid. It sports huge double flowers (up to 50 petals per flower – no, I'm not lying), a cool reddish-purple flower color, absolutely sterile

(no seed pods), and features nice "texensis-like" glossy leaf character. What's not to like there? The second variety is one you can't get – yet. 'Carolina Sweetheart' (PPAF) is a Tom Ranney introduction which

INTRODUCING QUIK-JETTM AIR SWITCH IT ON

Our new lightweight air-powered device increases productivity.



- Precise dose and measurement you can see
- One-thumb operation for fast injections
- Durable aluminum body weighing less than 2 pounds
- Quick-connect adapter hooks up to air tank

Learn more: Call 781-935-9070 or visit
arborjet.com/air

ARBORJET
Revolutionary Plant Health Solutions



Cercis Pink Pom Poms

will be sold only in North Carolina for the first year. In June 2014, I saw this redbud from a distance at Tom's work place, the beautiful Mountain Horticultural Crops Research & Extension Center near Mills River,

North Carolina. I remarked, "Hey, Tom, what's that tree with the bright pink flowers." He smiled and said, "Well, Dave, those aren't exactly flowers, those are leaves." When we made our way to the tree, I

found myself gasping for breath, slightly dizzy and wondering if I had snips and baggies. This variegated beauty features the most remarkable brilliant pink/green/white foliage I've ever seen on any plant, not just a redbud – truly a polychromatic explosion up close and far away. After 2015, 'Carolina Sweetheart' will be released to the world via a unique NC State University/North Carolina Nursery and Landscape Association/Conrad Pyle agreement. Drat. I wasn't part of the deal. As you might suspect, Tom was watching me closely and, while the temptation was great, I kept my snips in my holder, and, as a Texas Aggie, while I may tear up every now and then, I never resort to begging. I'm working on him for a plant or two to trial in the garden. Until that happens, let's applaud what these fine breeders in the Tarheel state are doing, and let's keep planting. ♪



LIVING EARTH™
MULCH • COMPOST • SOILS

www.livingearth.net

COMPOST THIS FALL

FOR A BETTER SPRING





BULK OR BY THE BAG
PICKED UP OR DELIVERED

8 DFW LOCATIONS
CALL: 972-869-4332

12 HOUSTON AREA LOCATIONS
CALL: 713-466-7360

Consistent, Reliable Results from Top-Shelf Materials

GET WATER SMART, TEXAS.

These simple tips for your yard can save one of our state's most precious resources.
So please, do your part. Every drop counts—especially during periods of drought.

For more information, visit TexasWaterSmart.com



*Set sprinklers to run in the morning or evening,
when temperatures drop. This reduces evaporation,
so less water actually goes farther.*



*Avoid watering your lawn on
windy days, when the water can blow
away or quickly evaporate.*



*Adjust sprinklers, so only your lawn is watered—
and not the house, sidewalk or street.*



*Use a layer of mulch in your planting
beds to minimize evaporation—and make a little
water last a whole lot longer.*



*Use drip irrigation or soaker hoses for
shrubs and trees to reduce evaporation and apply
water directly to roots where it's needed.*

TNLA



CERTIFICATION

COMING SOON

Sponsored by The Texas Water Smart[™] Coalition

New Members

Welcome! TNLA would like to welcome its new members. If you would like to become a member, or if you have any questions or concerns about your current membership, please contact us at 800.880.0343. Visit www.tnlaonline.org to learn about the benefits of becoming a part of TNLA.

REGION 1

Branch Landscape

Benchmark Landscapes LLC

Valerie True
14042 Dublin Square
San Antonio, TX 78217
www.bmlandscapes.com

Landscape

Tefacy, LLC DBA MTZ Landscaping

Anna Martinez
939 Menchaca St
San Antonio, TX 78207

GreatState OEG

Layth Washington, CLT, TCLP
11002 Ballard Peak
San Antonio, TX 78254

Student

Amanda Tobias

Palo Alto College
PO Box 61
Harper, TX 78631

Camille Fiorillo

Palo Alto College
5003 Timber Rise
San Antonio, TX 78250

Supplier

Mission Golf Cars

Chad Bachhofer
18865 Redland Rd
San Antonio, TX 78259
www.missiongolfcars.com

REGION 2 Landscape

M & M Landscaping & Design

William Maddox
PO Box 6677
Katy, TX 77491

MG Garden Designs

Mari Graham
1306 Wycliffe
Houston, TX 77043

REGION 4

Supplier

ATC Freightliner - Dallas

Tom Cavin
3040 Irving Blvd
Dallas, TX 75247
ATC Freightliner - Dallas
www.atcfreightliner.com

REGION 5

Associate Landscape

Melia McFarland

Wild
12533 Foxpaw Trail
Keller, TX 76244

Grower

Safari Green

Jerome Davis
8336 E FM 917
Alvarado, TX 76009

Retail

Roots And Stems LLC

Donna Wade
6530 Hwy 180 West
Albany, TX 76430

REGION 6

Landscape

Amarillo Lawnmaster LLC

Daryl Seth
2113 SW 3rd Ave
Amarillo, TX 79106

REGION 7

Landscape

JDC Landscape Architecture

Jaime Del Carpio
700 W Jackson Ave. #142
McAllen, TX 78501
www.jdclandscapearchitecture.com

REGION 8

Associate Landscape

Bill Keeney, TCNP, TCLP

University Of Mary Hardin-Baylor
900 College St
Belton, TX 76513

Landscape

Baker-Aicklen & Associates, Inc.

Tim Bargainer
507 W Library Ave
Round Rock, TX 78664
www.baker-aicklen.com

Benchmark Landscapes LLC

Valerie True
1814 W Howard Ln
Austin, TX 78728
www.bmlandscapes.com

Supplier

Whittlesey Landscape Supplies

Dakota Smith
3219 S IH-35
Round Rock, TX 78664
www.989rock.com

REGION 9

Educator

Allen Owings

LSU AgCenter-Dept. Of Horticulture
www.lsuagcenter.com
21549 Old Covington Hwy
Hammond, LA 70403-0533

Out of State Supplier

DynaSCAPE Software

Joe Salemi
3425 Harvester Rd Ste 217
Burlington, ON L7N 3N1
www.dynascape.com

Supplier

Jiffy Products

Michael Alan Brenner
869 Windridge Cir
San Marcos, CA 92078
www.jiffygroup.com

Outdoor Fire Concepts

Pat Klohr
1512 Pradera Dorada
Las Cruces, NM 88007
Outdoor Fire Concepts

newly certified individuals



TCNP

Jessi Bautista, TCNP

Houston, TX

Christopher A. Donnell, TCNP

Houston, TX

Ross W. Newton, TCNP

Houston, TX

Shauna P. Williamson, TCNP

Richardson, TX

TMCNP

Heather M. Bernier, TMCNP

Lewisville, TX

Gerald Butler, TMCNP

Flower Mound, TX

Virginia Haapoja, TMCNP

Houston, TX

Cindy Steward, TMCNP

Flower Mound, TX

Rebecca Weller, TMCNP

Plano, TX

Richard R. Wilcox, TMCNP

Lewisville, TX

Learn more about the benefits of certification at www.tnlaonline.org.

Innovation you can apply.

Check out these great products
and more from **Quali-Pro**...



NEGATE® 37WG

Herbicide
1.5 oz. bottle

Strobe™ 50WG

Broad Spectrum Fungicide
1 and 6 lb. bottles

ENCLAVE®

Flowable Fungicide
2.5 gal. bottle

2DQ

Herbicide
1 gal. and 2.5 gal. bottles

MSM 25 OD

Herbicide
4.5 oz. bottle

QUALI-PRO

Innovation you can apply.

Get connected



**All products featured are currently available for immediate purchase.
Order now from your local distributor or call 800-242-5562 for more information.**

Enclave, Negate and Quali-Pro are registered trademarks of ADAMA Group Company.
For more information on our wide selection of turf and ornamental products, visit quali-pro.com or call 800-242-5562



*A busted mower can mean a busted business.
So when your equipment is down, we know you
**expect parts on our shelf and
a skilled mechanic in our shop.**
Whether you need a **box of blades or
an overhaul on your engine,**
your local Horizon Service Center can get the job done.*

Visit www.HorizonOnline.com to learn more about our Service Centers.

Scan here to visit us online or stop in to your local Texas Horizon store.



Alliance817.232.3380
Austin.....512.282.2331
Bedford.....817.545.7756
Carrollton972.466.1600
Frisco.....972.712.5000

Houston713.934.9500
Richardson972.680.0007
Round Rock...512.255.1990
San Antonio ..210.408.9090
Spring.....281.681.0600

Horizon

irrigation ♦ outdoor living ♦ landscape ♦ equipment

Classified Ads

For the latest job listings visit our **online opportunities**.



Agriculture and Horticulture

instructors Are you passionate about plants and animals? Do you value education and enjoy sharing your knowledge? Are you driven by the challenge of meeting expectations and goals? Palo Alto College is currently seeking talented, energetic Agriculture and Horticulture instructors to join our team!

Agriculture and Horticulture instructors will work under the direction of the Dean of Career and Technical Education and be responsible for program delivery and content coordination, curriculum review, and record maintenance. The Horticulture program is accredited by the Professional Landcare Network (PLANET)

Requirements: 3 years of recent industry experience outside of teaching. A minimum of a master's degree in Agriculture with 18 graduate hours in Agriculture Apply now at: peoplelink.alamo.edu search for Requisition number: 143102 Please contact Human Resources if you have any questions or concerns: (210) 485-0200 or employment@alamo.edu This position is located in San Antonio, TX

For Sale One of the oldest nurseries in Texas established in 1936, located in the San Antonio area. Current owner is looking to retire. Land, water rights, nursery stock, greenhouses, equipment and supplies available. For more information, call 210-622-3491.

Want to place a classified in Green Magazine? Email communications@tnlaonline.org for more information.

Field Supervisor All Metroplex Landscape Services, Inc. WANTED: Field Supervisor in the Dallas-Ft. Worth Area. 20 year-old landscape maintenance company offers year round employment. Requirements for the position: Minimum two years experience in landscape maintenance; Minimum one year experience supervising a minimum of 12 employees; Must be Bilingual; Certified with the T.D.A or as an irrigator; Good Driving Record; Must pass a background check; Will not consider anyone for this position from outside the landscape maintenance profession.

Send Resume by fax or e-mail, along with salary requirements. All Metroplex Landscape Services, Inc. 11019 Denton Drive Dallas, TX 75229; Phone: 214-484-6275 Fax: 214-484-6367; e-mail: sue@allmetroplexlandscape.com

Retail Sales Representative The Gardens at The Ridge, located in Kerrville is seeking an experienced Retail Sales Representative to drive growth in our Native Nursery. Must possess a horticultural background and a knowledge pertaining to plants native to Central Texas. Must be very well organized, encourage a positive attitude among staff, be team oriented and highly motivated to prosper with our growing retail nursery.

Please remit resumes to: Kristi Long (210) 289-1112 kristi@gardensattheridge.com

SUBMATIC TECHNOLOGIES

WATER MANAGEMENT SOLUTIONS

PRODUCT GUIDE

Includes everything you need for the ultimate water management systems:

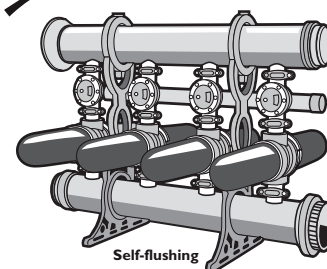
Driplines, Valves, Sprinklers, Controllers, Injectors, Hoses, Sensors, Tubing and much more.



State of the Art Filtration

NEW APOLLO DISC FILTER

★★ Reaching for the Stars ★★



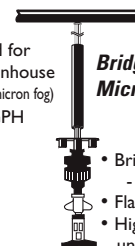
- For ponds, canals and rivers
- 50 to 3,500 GPM and up
- Automatic and pre-assembled
- Compact - fits in 14' x 6' area
- Quick backflush

Greenhouse & Nursery Systems

- For misting, humidifying, fogging and sprinkling

Super Fogger

- Efficient method for controlling greenhouse conditions (100 micron fog)
- Flow rate: 3.3 GPH



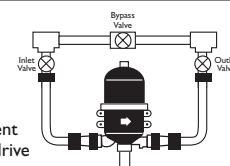
Bridgeless Micro Sprinkler

- Bridgeless design - no dripping
- Flat trajectory
- High distribution uniformity

Injectors

Proportional

- Constant rate
- Ratio adjustment
- Very smooth drive



Container Systems



Weight Assemblies

- Pressure compensating
- Highly versatile

Spray Stakes

- Unique oval pattern
- Multiple flow rates

3804-D Woodbury Drive
Austin, TX 78704

512.440.7744 • Fax 512.440.7793

In Memoriam

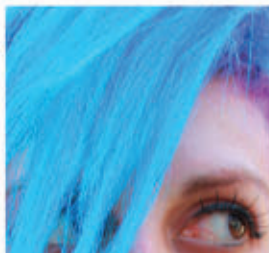
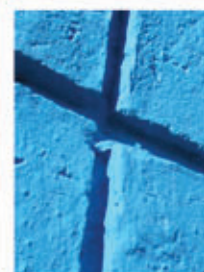
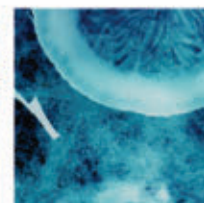


CHARLES EDWARD BLACK, SR. was born in Barstow, Texas on March 24, 1917 to Josiah T. Black and Donnie S. Black. He attended public schools in Barstow where he lettered in football. While attending the College of Mines in El Paso, he was on the track team. He received a Bachelor of Science degree from Texas Tech where he

majored in Agriculture with another Major in Horticulture. During World War II, Charles served in the Army in the Pacific Theater, based in the islands of New Caledonia, Fiji and the Philippines. He was discharged from the Army with the rank of Staff Sergeant. In 1946, Charles formed a small retail and landscape company, known as Black's Nursery. He served as President of the El Paso Association of Nurserymen, President of Plains Association of Nurserymen as well as President of Texas Association of Nurserymen. He was a past President of Ysleta Lions Club, served on the El Paso Parks Board, El Paso County Parks Board, the Civic Center Building Committee, the Mountain Committee, and Beautify El Paso. He also served on the Government Relations Committee of the El Paso Chamber of Commerce. Charles was a sponsor of Ysleta

baseball program for over 30 years, was elected to the Board of Directors of El Paso County Water Improvement District II, and was one of the founders of the Valley Bank, now Compass Bank. Charles had a life-long love of trees, admiring their beauty and usefulness in the world. In his work as a Texas Landscape Architect, he always incorporated trees in the landscape plans that he drew. He also formulated "Black Diamond" Fertilizer. He is preceded in death by his parents, his wife of 62 years, Joann Mason Black, two sisters, Catherine Ellarena Black and Marjorie Black Nichols as well as by his nephew, Charles Donald Nichols, and a host of his extended family, all of whom he loved very much. Left to cherish his memory are his children, Vicki Black Walker (Bill), Charles, Jr. (Lizette) of El Paso, Texas, foster daughter Nola Costa Dippenaar (Pierre) of Pretoria, South Africa, his grandchildren Matthew Walker (Laura) of Vancouver, Canada, Joanna Garrison (Trey) of Austin, Texas, Kathryn Gutierrez (Arthur) and Ashleigh Black, both of El Paso, Texas and three foster grandchildren, Dwayne, Lori and Megan Joann, all of Pretoria, South Africa. Charles was truly a member of "The Greatest Generation" and was a decent, kind, and generous man and he was loved and admired by all who knew him.

*Do you have
a favorite
Cyan image?**



Hassle-free printing

5,000 postcards \$149
10,000 flyers \$349
1,000 magazines \$995
(16 pages, 60# paper)



**SHWEIKI
MEDIA**
HASSLE-FREE PUBLICATION PRINTING...AND MORE

*Visit your new favorite printer and upload your cyan inspiration: pinterest.com/shweikimedia/cyan
For free samples or a quote, call (210) 804-0390, or email samples@shweiki.com

Calendar of Events

NOVEMBER

- 2-7 The APLD International Design Conference
- 3 TEIL Award Applications Deadline

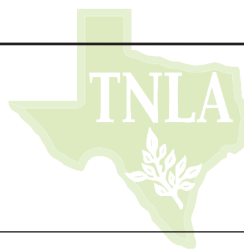
DECEMBER

- 25 Christmas

JANUARY

- 15 2015 Professional Grounds Keeper Agenda, Belton, TX
- 15-18 TNLA Winter Showcase Trade Show, Dallas
- 14-15 TNLA Winter Showcase Career Days, Dallas
- 15 TNLA Winter Showcase Grower Tour, Dallas
- 16 TNLA Winter Showcase Business Management Workshop, Dallas

**For meeting times and additional information,
please visit www.tnlaonline.org**



GREENHOUSE FOR SALE SOUTHERN NEW MEXICO

- ♦ Acreage - 105.09
- ♦ Water Rights
- ♦ Farmland
- ♦ Greenhouse -
630,768 sq. ft. of growing space
- ♦ Asphalt - 28,500 sq. ft.
- ♦ Cold Storage - 3,650 sq. ft.
- ♦ Office Building - 5,000 sq. ft.
- ♦ Shop & Warehouse - 153,170 sq. ft.

Asking Price: \$6,700,000

Contact: Bruce Keeler

bruce.keeler@farmcreditnm.com

(575) 528-7100



**IRRIGATION
STATION**

ex•pe•ri•ence [ik-speer-ee-uhns]
knowl•edge [nol-ij]
qual•i•ty [kwol-i-tee]

•

**EVERYTHING
YOU
NEED**

AUTHORIZED DISTRIBUTOR

Hunter® RAIN BIRD®

Your premier wholesale irrigation & landscape resource

TX 800-356-2458 • OK 800-730-7246 • IRRIGATIONSTATION.COM

**SUPERthrive® ~ Always ahead
in science and value.**
~ Maximizes water usage during a drought



SUPERthrive® maximizes potential by quickly building a strong root base. Essential during dry months. Perfect for edibles, landscaping, and transplanting trees of all sizes.

Our timeless formula introduced kelp last year to integrate contemporary research with the existing nutrition that **SUPERthrive®** has provided since 1940.

Dosage for most uses:

~ 1/4 tsp. per one gallon of water.
Maintenance for larger areas use at a rate of 3oz. per 100 gallons.
~ 1 tsp per gallon for transplanting.



SUPERthrive®
1940 WORLD'S FAIR
Gold Medal
The Original Vitamin Solution

Vitamin Institute
North Hollywood, CA 91605
www.superthrive.com

TNLA GREEN

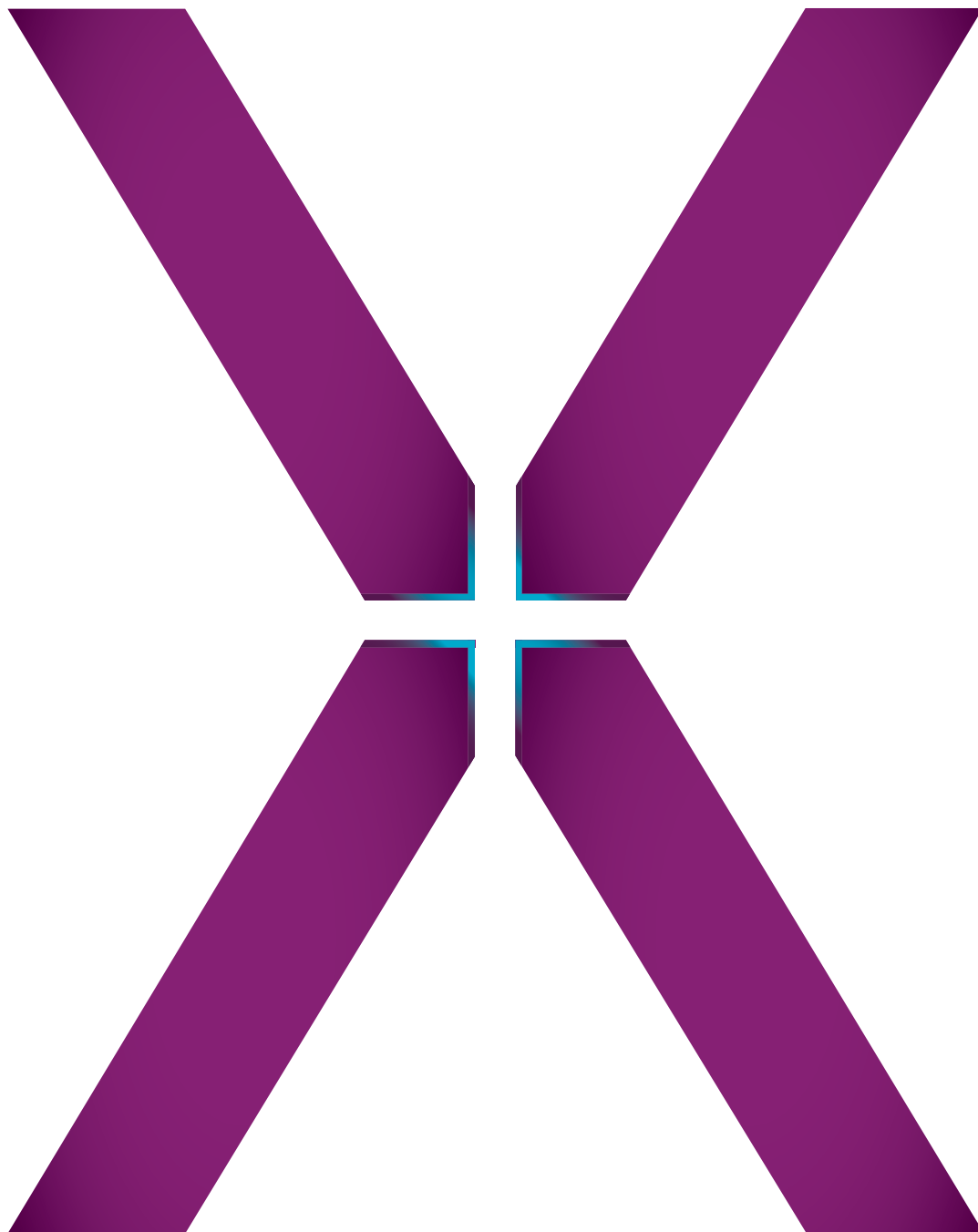
For media kit and advertising information,
email advertising@tnlaonline.org

ADVERTISERS INDEX

PAGE	ADVERTISER	WEBSITE
38	Arborjet	www.arborjet.com
26	Dallas Market Center	www.dallasmarketcenter.com
34	Everris	http://everris.us.com/resources/video/introducing-gemini?utm_source=TNLAPrint&utm_medium=DigMagazine&utm_content=PrintAd&utm_campaign=34845
2	Ewing Irrigation Products, Inc.	www.ewing1.com
45	Farm Credit of New Mexico	www.farmcreditm.com
42	Horizon Irrigation	www.horizononline.com
16	Hotchkiss Insurance	www.hiallc.com
45	Irrigation Station	www.irrigationstation.com
39	Living Earth	www.livingearth.net
32	Magnolia Gardens	www.magnoliagardens.com
47	OHP, Inc.	www.ohp.com
42	Quali-Pro	www.quali-pro.com
44	Shweiki	www.shweiki.com
36	Spring Meadow Nursery	www.springmeadownursery.com
43	Submatic	www.submatic-usa.com
20	Texas Caterpillar	www.holtcat.com
4	Texas Green Industry Workers Comp.	www.tgiwcgroup.com
24, 25	The Thompson Group at Classic Chevrolet	www.classicfleet.com
46	Vitamin Institute	www.superthrive.com

Strike out disease

with the power of plus



MOA 3 + MOA 11
Systemic + Translaminar
Preventative + Curative
Economical + Broad Spectrum

Strike[®] Plus
Fungicide

#strike_plus 

@OHPsolutions 

ohp.com

(800) 356-4647



INSECTICIDES
FUNGICIDES
MITICIDES
PGRS
HERBICIDES

ohp | Partners
with
solutions

REV UP

JANUARY 15-18

YOUR BUSINESS

AT THE

CAREER DAYS
January 14-15th

TRADE SHOW
January 15-18th

GROWER TOUR
January 15th

**BUSINESS MANAGEMENT
WORKSHOP**
January 16th



LEARN MORE OR REGISTER AT
WWW.TNLAONLINE.ORG

REGISTRATION
NOW OPEN!