

The History of Champion Trees
Page 4

**2018 Utah Tree Climbing
Competition Application**
Page 7

UCFC 2017 Annual Awards
Page 10

**Utah Tree Browser Website and
App.**
Page 14

UCFC

UTAH COMMUNITY FOREST COUNCIL • ISA - UTAH CHAPTER

The Utah Community Forest Council/International Society of Arboriculture-Utah Chapter is a non-profit organization that advocates for proper management and care of Utah's community forests through partnerships and public and professional education.

UCFC/ISA MEMBERSHIP RATES

Both memberships can be paid Online at <http://www.isa-arbor.com> or at <http://www.utahurbanforest.org>.

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Individual – \$45	ISA – \$130
Student – free	ISA – free
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The International Society of Arboriculture (ISA) and UCFC memberships now renew one year from the day the membership starts. Contact Lisa Hanussak for more information. lisa@utahurbanforest.org



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Ty Nielsen is West Jordan City's Urban Forester and UCFC's President Elect (as well as a Past President). He is passionate about trees.



CONTENTS

Letter from the President	2
Champion trees by Jared Farmer	4
New UCFC Board members	6
2018 Utah Tree Climbing Competition application	7
What is Your Community Designation? by Jeran Farley	9
UCFC's 2017 Annual Awards	10
Utah Tree Browser App by Mike Kuhns	14
Ancestors Connected Through Trees by Ty Nielsen	16
ISA survey results	17
UCFC Membership	19
Tree Puzzler	20

LETTER FROM THE PRESIDENT

BY A. MIKE LOPEZ

Most people don't think about trees needing to survive the winter. That's probably because they see the same trees year after year which tend to look pretty much the same. Trees are always there, uncomplaining through the seasons.

Yet trees are every bit as amazing, inspiring, and tough as other life forms on earth. Trees have been "tested" by evolutionary fires and their strategies for survival – their adaptations – are pure and proven genius.

If a species cannot adapt, or adapt quickly enough, it may fade away, or only exist in small pockets where conditions are favorable. You may not think that trees have to "survive" anything except fire, microbursts or tornadoes.

Well, consider the main threats from winter's cold embrace: freezing temperatures, dehydration, and physical damage from winter storms. Freezing temperatures and dehydration can also damage or kill trees in winter.

When water freezes, the molecules form ice crystals. No harm done if you want to drop ice cubes into your beverage. However, if freezing molecules are inside cells of your fingers and toes, as in frostbite, ice crystals form and expand, acting like microscopic daggers, piercing cells and killing them.

Tree sap is about 95% water. Some trees have gallons of sap flowing up and down the trunk and out to leaf and twig tips. Since trees cannot migrate to avoid winter, they adapt to reduce the chance of winter damage or kill.

The most noticeable broad-leaved tree winter survival adaptation is autumn leaf drop. Leaves add a lot of mass and wind resistance--a broken limb liability during snow and ice storms, especially if high winds also occur.



Leaves also add more surface area for cold, dry winds to suck moisture from trees by evaporation.

During warm growing seasons, water vapor is released along with oxygen from the pores or stomata on each leaf during photosynthesis. Transpiration helps transport water and nutrients in sap through the tree to leaves.

All water in a tree is connected by touch, so when water evaporates from leaves, more water draws up to replace moisture lost to wind and sun.


Trees prepare for winter by sealing off this water vapor loss. They form an abscission layer of cells at the base of each leaf stem. Once this is done, leaves fall away. This adaptation conserves precious water reserves during winter months when liquid water is not always available, reducing dehydration danger.

Most tree sap is stored in roots deep underground away from winter's icy grip. The small amount of sap remaining above ground has a higher concentration of sugar. This sugar acts as a sort of antifreeze and lowers the freezing point of sap.

Bark is another winter tree adaptation. In winter, bark's main purpose is to protect trees from freezing and cracking during severe cold spells. However, bark protects trees less from cold and more from the sun's heat.

Freezing sap isn't necessarily what causes a tree to crack, but rather differential heating and cooling of a tree from inside to outside. In other words, when a tree is exposed to warm sunshine, its interior and exterior heats up and expands.

However, when bark is exposed to cold winds at night, it can cool and contract much more rapidly than the interior. This can cause the protective bark layer to split be-



cause the outer layer circumference becomes smaller than the warmer, still-expanded interior circumference.

The reflective qualities of light gray or bright white coloring allows bark to not warm up much during daylight hours, minimizing the temperature difference from the trees' interior to exterior.

So what about dark tree bark? While the almost black coloring of some bark will definitely warm up faster than white bark, it also sheds accumulated heat faster. Deeply furrowed or scaled bark on dark-colored trees also acts like a radiator to diffuse heat before it can warm the trees' interior (which causes expansion).

If you look closely at most trees with curly, furrowed, or scaly bark, you'll see the bark is also made of many thinner layers that expand or contract with heat, cold, and moisture. When bark absorbs moisture, it acts as an impact attenuator, minimizing damage from nearby falling trees and limbs during rain or snow storms. If you have tried using an axe on a rain-soaked log, you know how effective this adaptation can be.

Trees are magnificent in their form, function, and beauty. Next time you walk a mountain trail, visit a city park or stroll around your neighborhood, stop for a while and have a good long look at a tree. Feel its presence as a living, breathing organism that, like you, must have enough food and water to live and deal with stresses of daily life. Take a moment to offer your heartfelt gratitude for all that trees give you, from the oxygen you breathe to lumber in the shelter you call home.

CHAMPION TREES

THE SUPRISING PEDIGREE OF A BOTANICAL IDEA

BY DR. JARED FARMER

In 1914, the American Genetic Association—a eugenics organization—sponsored a contest to find the largest trees in America, excluding conifers. The AGA was interested in trees that achieved “greatest development” in human landscapes. The results were published in the *Journal of Heredity* (formerly *American Breeder’s Magazine*) the following year. A sycamore surrounded by a corn field in Indiana won the prize with a 42-inch circumference. The authors of the report called for the preservation of “magnificent members of the vegetable kingdom”—though they stopped short of making direct comparisons to human breeding.

In the late 1910s, possibly in response to the eugenicists, the American Forestry Association—a much larger organization—started its own initiative: the “Hall of Fame for Trees.” It encouraged people across the country to nominate remarkable specimens from their hometowns. Of the dozens of nominees

chosen to be profiled in the magazine *American Forests* in 1920–1922, many fit into the nineteenth-century tradition of “historic trees”—plants that “witnessed” patriotic history. For example, Daughters of the American Revolution nominated Washington trees, Lafayette trees, and so on. But, significantly, some hall-of-famers were simply big, beautiful trees with no historical associations. Although the AFA indicated it wanted “trees with a history rather than trees of unusual size,” it contradicted itself with its first inductee—the Wye Oak of Maryland, a tree noteworthy only for size.

The Hall of Fame for Trees later morphed into the Social

Register of Big Trees, now called the National Big Tree Program. Since 1940, the American Forestry Association has maintained a species-by-species register of “champion” specimens based on scoring. **Trunk circumference in inches + Height in feet + Average crown spread in feet, divided by four = Total points.**

Each year, new winners are announced.

This system was inspired by Fred Besley, an early graduate of Yale’s forestry school, who served as Maryland’s state forester for nearly four decades. In

1925, Besley sponsored his first statewide “Big Tree contest.” Using crowdsourcing, he determined that the Wye Oak was in fact the largest white oak in the state—and the nation. Thanks to Besley’s efforts, Maryland purchased the parcel around the oak, made it a postage-stamp state park, and also adopted the species (*Quercus alba*) as the official state tree.



To this day, the quantification and listing of national champion trees remains popular in the United States. There is something distinctively American about the practice: bigger means better, biggest wins best. British and European dendrophiles have recently borrowed the “champion tree” idea, but only the U.S. has a formal size competition.

A distant echo of the eugenics movement can still be heard in champion tree talk. In recent years, the U.S.-based Archangel Ancient Tree Archive made worldwide

news with its project of cloning champion trees. ("Champion Trees are the Answer" is the organization's motto.) By propagating the "best of the best", the archive hopes to promote reforestation and carbon sequestration. The charity made clones of the Wye Oak before it died in 2002. The logic of the group's well-meaning program derives more from American culture than plant science. Most champion trees are not in fact genetically superior, but simply lucky: the beneficiaries of optimal habitat.

The 2017 American Forests Champion Trees national register has 769 national champions and co-champions, including 109 newly crowned specimen. The national register has basic and advanced search features that allow you to search by species, measurements, location and total points.



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Program Objectives

With an estimated 60% of drinking water in the western U.S. applied to urban landscapes, water conservation is an important issue. Utah State University is the only university with a professional Master's degree focusing on urban landscape water conservation. Using landscape water efficiently is a multi-faceted issue involving an understanding of plant science, irrigation technologies, human behaviors and landscape design, all set within the political and economic contexts of communities challenged to meet water demands of growing populations. This degree provides horticulturists with the knowledge and skills needed to effectively implement and promote landscape water conservation. As water becomes more precious, demand for these skills continues to increase.

NEW BOARD MEMBERS

JANUARY 2018



Chaz Addis – City Forester, City of Provo & Provo Power. Chaz has worked in the Arboriculture industry for 17 years. He spent the first part of his career working for Trees, Inc. starting as a groundman then moving his way up spending his last 6 years with Trees Inc. as a Forest Technician. He is an ISA Certified Arborist, ISA Utility Specialist, Tree Risk Assessment Qualification (TRAQ) certified, and a graduate of the Municipal Forestry Institute. Chaz currently manages Provo’s City and Utility forestry programs.

Cory Davis is a Forest Area Service Coordinator with Salt Lake City Corporation. In this role, Cory evaluates and diagnoses trees and vegetation on City property to determine maintenance needs. He also develops materials regarding urban forest health and services for public consumption. Cory is skilled in tree risk assessment and knowledgeable in the treatment of common tree diseases and issues as well as proper tree planting techniques, and long-term tree care.

Cory is an International Society of Arboriculture Certified Arborist and earned the ISA TRAQ. He has attended many ISA conferences during his career. Currently, he is building on a strong foundation of arboricultural knowledge through seminars, conferences and field exercises while working to become a Board Certified Master Arborist.

Tony Gliot is the City Forester for Salt Lake City. He is a graduate



of the University of Wisconsin-Stevens Point, with a Bachelor of Science degree in Urban Forestry and Forest Management. Tony worked as a tree climber/ PHC technician for Davey Tree Experts in Minneapolis, MN, and (for the last 17 years) headed urban forestry departments for three different municipalities. The majority of Tony’s 18-year professional career was in northern Illinois (north and west of Chicago), however, he is now happily transplanted in Utah and excited by the prospect of improving quality of life through sound and creative urban forest management. Tony has extensive experience managing Emerald Ash Borer, Gypsy Moth, and Dutch Elm Disease on a large scale. Tony’s primary professional interests are cultivating awareness of (and appreciation for) trees in urban and suburban spaces, and optimizing techniques to establish and preserve trees for future generations.





Cut along the line and

25th Annual Utah Tree Climbing Championship



Photo courtesy of Diane Sagers

June 8 - 9, 2018

Rain or shine!

Bountiful City Park 100-198 West 400 North Bountiful, UT 84010

3 CEUs for ISA Certified Arborists

Directions to Bountiful City Park, from I-15: Follow I-15 to 400 North (Exit 317). Head East on 400 North, turn Left on 200 West. The park is on your right.

Friday, June 8, 2018

Competitors are required to attend.

Arrive early, we will start promptly!

7:30 am – Registration & Gear Check

8:30 am – Welcome

9:00 am – Ascent Event Review & Equipment Check

10:30 am – Event walk through and rule review

Climbers receive a T-shirt when fees are paid by May 17. T-shirts may be available for purchase at the event.

Friday, June 8, 2018

11:30 – Competitors will compete in three of these events: Work Climb, Aerial Rescue, Belayed Speed Climb, Ascent Event, and Throw Line.

Lunch provided for climbers & judges, but no break.

Lunch is provided for registered climbers and judges only. Food will be available for spectators to purchase.

Saturday, June 9, 2018

Arrive early, we will start promptly!

7:30 am – Competitor Check-in

8:00 am – Competitors will compete in two of these events: Work Climb, Aerial Rescue, Belayed Speed Climb, Ascent Event, and Throw Line.

Lunch provided for climbers & judges, but no break.

10:00 am – Children’s Tree Climb

11:00 am – Preliminary Event Awards

11:30 am – Drawing*

12:30 pm – Master’s Challenge

3:30 pm – Master Challenge Awards

Times are subject to change.

Visit www.isa-arbor.com for complete rules, scoring, and regulations.

Competitors must bring the following climbing equipment:

Boots and Hardhat with chin strap Throw Ball and Line Climbing Saddle and Rope
Double Locking Carabiners Flip Line or Lanyard Figure Eight Descender Handsaw

PRIZES

Individual event winners receive \$100. The Master’s Challenge winner receives \$500 plus travel expenses to attend the **International Tree Climb Championship (ITCC)** in **Columbus, OH** on **August 3-5, 2018**, a chainsaw from Stihl and climbing gear from Arbor Master; second place is \$500; third place is \$300; and fourth place \$200. **The 2nd & 3rd** place winners can compete at NATCC in Ohio in September.



To be a sponsor, please call
801-446-8229
or email
Lisa@UtahUrbanForest.org

*DRAWINGS

Vendors donate equipment to be used for drawings on Saturday including a chain saw, climbing hardware, and other equipment. Tickets will be sold at the event.

25th Annual Utah Tree Climbing Championship Registration Form
Both sides of this section must be completed by each competitor.

Each competitor must read, initial each paragraph and sign the following:

- To win and represent the ISA-Utah Chapter, I have been a member in good standing of the Utah ISA Chapter since February 28, 2018, and live and work within 300 miles of Salt Lake City, Utah.
- I will attend the equipment check on Friday, June 8, 2018 at Bountiful City Park. The equipment I bring to the equipment check will be used at the tree climbing event, is appropriate for tree climbing, and meets or exceeds minimum accepted industry safety standards.
- My registration fee must be paid by May 16, 2018 to receive T-shirt. If payment is received after May 16, T-shirt is not guaranteed.
- When fee is paid by May 16, I request the following event T-shirt size: S, M, L, XL, XXL (circle one).
- If I win the Master's Challenge, I will represent the Utah ISA Chapter on August 3-5, 2018 in Columbus, OH, and I am or will be an ISA member to compete at the ITCC event.

I have read and agree to these statements.

 Signature

 Date

 Printed Name

Registration must be received by May 16, 2018 to receive T-shirt. If received after May 16, T-shirt is not guaranteed.

Name _____

Company _____

Address _____

Address _____

Email _____ Phone _____

Registration Fees (please check one):

Registration received by May 16

Member of UCFC/ISA-UC:

- Competitor \$100 (Climb & CEU's)
- Non-Competitor \$75 (For CEU's only, must attend)

Non-Members:

- Competitor \$145 (Climb & CEU's)
- Non-Competitor \$120 (for CEUs only, must attend)

May 18 to June 9 registration:

- Competitor \$170 (Climb & CEU's)
- Non-Competitor \$145 (For CEU's only, must attend)

Registrations:

- Email to lisa@utahurbanforest.org
- Telephone 801-446-8229
- Mail check payable to UCFC. Mail to Lisa Hanussak, 2506 W Cherry Grove Way, South Jordan, UT 84095

VISA MasterCard

Cardholder's Name _____

Card # _____

Exp Date ____/____ Three #'s on back _____

Signature _____

Address and zip code of billing address for credit card:

URBAN & COMMUNITY FORESTRY: IS YOUR COMMUNITY DESIGNATED AS DEVELOPING OR MANAGING?

BY JERAN FARLEY

Urban and community forestry is thriving in the State of Utah. In 2017 the state had its federal review--something that occurs every five years. During this review, projects and programs from the last five years are analyzed. One item that drew attention is the number of "developing" and "managing" communities throughout the state.

The USDA Forest Service considers a community to be "managing" if it has the following components:

1. Tree Ordinance
2. Professional Forestry/Arboriculture Staff
3. Tree Board/Commission
4. Tree Management Plan based on inventory data

A "developing" community has at least one of these components. These designations are important because the amount of "managing" and "developing" communities in a state helps determine the amount of federal funding provided for urban forestry programs and community grants. It is no coincidence that many requirements for a community to earn Tree City USA designation are the same. The State of Utah is reviewing each community to ensure community tree management plans are in place and current.

If you know a community that is interested in developing a tree management plan or conducting a tree inventory, please contact us at the State Forestry office. We are thrilled to work with your community.



2017 UTAH COMMUNITY FOREST COUNCIL AWARDS

IMAGES BY JERAN FARLEY

CITIZEN FORESTER OF THE YEAR DALE BIGLER



Dale is an active tree steward in Elk Ridge and a key proponent of establishing trees for anticipated population growth. Dale coordinates with neighborhood volunteer groups, city administrators and a tree board to advocate planting and promote proactive tree management. With Dale's help, a tree inventory and management plan is in place.

Dale successfully led the charge to earn two Community Forestry Partnership Grants offered by Utah's Division of Forestry, Fire and State Lands. Dale is a past Elk Ridge City Councilman and, through his vision as a community steward, trees line new thoroughfares, trails, parks and sport fields. Eagle scout candidates regularly knock on Dale's door knowing they have his support and city contributions to help them steward successful community projects. Thanks to Dale Bigler's efforts, Elk Ridge will enjoy the benefits of public trees for generations.

COMMUNITY OF THE YEAR NEPHI CITY

Nephi City, population 5,800, is awarded the 2017 Community of the Year award because, even though they will be obtaining Tree City USA (TCUSA) status for the first time this year, they have a longstanding legacy of caring for trees.

It is doubtful that one could find any non-tree city community in rural Utah that employs two Certified Arborists. Nephi does, and it shows. The quality and diversity of Nephi's urban forest is remarkable, and is only achievable through twenty-plus years of diligent care. Before obtaining TCUSA recognition, Nephi completed a comprehensive street tree inventory and is now working to complete a management plan. If every city were as proactive as Nephi, all of Utah's community forests would be significantly enhanced.



DISTINGUISHED SERVICE AWARD
MELISSA FAYVILLE

Melissa gives her all as “Organizer in Chief” of Summit County’s tree activities. Missy’s proactive approach over the last 3 years scored an impressive list of ReLEAF UTAH projects including:

- Love Your Trees, which plants and cares for the County’s mature trees
- Fruit Nuts, which rallies community members to prune, mulch, and harvest local apple trees for Food Bank contributions
- Trees for Kids, a hands-on program that produces student tree advocates

Each year, Missy helps local fourth grade students bag, sort, and count over 2,500 seedlings as tree workshop giveaways for youngsters at Recycle Utah’s popular Water Festival.

She repots seedlings with summer school students, promotes Forestry, Fire and State Lands poster contests, and grubs/mulches Wasatch State Park’s antique apple orchard with student volunteers. With gratitude for her enthusiasm as field marshal for Summit County’s trees, we award Melissa Fayville the 2017 Distinguished Service Award.



ARBORIST OF THE YEAR
LINDEN STEED



Linden is an extremely dedicated tree care professional with 30+ years of hard work caring for Utah trees. He spent his early years as a utility forester for Davey Tree Experts. He then helped pioneer Utah’s utility tree program and implement the “Shigo” pruning method in, and beyond, the Salt Lake valley. From there he applied his knowledge and skills in Provo City where his status as a valued employee spans 20 years. Linden is an integral part of Provo Power’s utility tree program where he helped build and now maintain the line clearance program. He plays a huge role in Provo City’s street tree program through which his efforts benefit thousands of trees in its park strips.

Linden’s contributions to Provo’s Arbor Day celebrations began 20 years ago. He is a very strong supporter of the Utah Community Forest Council (UCFC), attends many training sessions and volunteers as a Tree Climbing Championship judge, most recently at the North American Tree Climbing Championship hosted by UCFC.

Linden’s contributions to tree care benefit many in Provo and across the State of Utah through a distinguished career and this is why we name him 2017 Arborist of the Year.

LIFETIME ACHIEVEMENT AWARD RANDY MILLER

In grateful recognition of dedicated service to the State of Utah, its citizens, and urban forestry, we honor Randy Miller with the Utah Community Forest Council and International Society of Arboriculture's Lifetime Achievement Award.

Randy gives trees a good name and he trains other arborists and foresters to do the same. After earning his MS in Urban Forestry at the U of Wisconsin, this Utah transplant made trees his passion and his life calling. As a Certified Arborist, Certified Utility Specialist, and Board Certified Master Arborist. Randy served as a Utility Arborist at Pacificorp for 23 years.

During his active career, Randy certified new ISA members, wrote and edited scores of tree-related articles and served on too many Boards to list. In 2014, Randy testified before the U.S. House Natural Resources Committee on "Keeping the Lights On and Reducing Catastrophic Forest Fire Risk: Proper Management of Electricity Rights of Way on Federal Lands." His vast experience and zest for life make him a sought-after academic and conference speaker across the U.S. An avid cyclist, Randy shows up at tree plantings in Lycra and a helmet, and commutes to Chair ReLEAF UTAH board meetings on his street-legal Enduro motorcycle. Sometimes, in the rain.

This funny, accomplished, Renaissance tree man continues to inform, inspire and amaze us.

For his distinguished service to the community forests of Utah, it is with great pleasure that the President and Board of Directors of the Utah Community Forest Council and Utah Chapter of the International Society of Arboriculture extend our sincere appreciation and gratitude for all of Randy's hard work, dedication and service.



Tony Deitz accepted the award in Randy's place.



PRESIDENTIAL AWARD MIKE BUNNELL

Mike is a great man, arborist and well rounded professional who has worked for the State of Utah, the City of South Jordan, and private tree care companies. Mike understands the importance of interpersonal communications, the value of community tree resources, proper tree selection & installation, tree risk assessment and tree pruning theory. He helped with two tree climbing workshops and presented at the Tree City USA banquet on the importance of community tree inventories. He presented at the 2017 Northern Green Conference, helped teach the Utah Arborist training series, and volunteered as a scorekeeper for the 2017 UTCC and NATCC. Supported by his amazing wife Amanda, he is a dedicated husband, father and friend. He is always willing to help out or provide solid unbiased advice in complex situations. His passion for trees is clearly visible to anyone who associates with him. Mike is well deserving of the 2018 UCFC President's Award.





AERIAL RESCUE TRAINING

The Utah Community Forest Council and Wasatch Arborists is hosting an Aerial Rescue Training Workshop on March 12, 2018.

This Aerial Rescue training is being hosted by the Utah Community Forest Council (UCFC) and Wasatch Arborists. It is funded in part by the Arborist Safety Training Institute (ASTI) of the Tree Care Industry Association (TCIA). Any excess funds earned from the training will be donated to the UCFC for their education and training programs.

The workshop will be taught by Beau Nagan of Chicago, Illinois. Beau is a registered aerial rescue trainer for TCIA and holds ISA Certified Arborist® certification, Certified Arborist Utility Specialist™ certification, and the ISA Tree Risk Assessment Qualification.

Workshop - - - March 12, 2018 - - - 8:30 AM - 4:30 PM - - - Location: Provo City Power, 251 West 800 North, Provo, UT 84601

Registration: \$40, register online at <https://squareup.com/store/aerialrescue>

The registration includes lunch, a training manual, and 4 CEUs. The course includes a classroom portion and a practical portion held outdoors. Please bring appropriate clothing, helmet, and work boots for the practical session. Though not required, it is recommended to bring an everyday climbing kit for the equipment discussion.

Questions or concerns? Please contact Jessica at (435) 200-5544 or jessica@wasatcharborists.com.

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WEBSITE & APP

USING THE UTAH TREE BROWSER

BY DR. MIKE KUHN

Utah's Tree Browser website (treebrowser.org) has been around for a couple of decades but it is still growing. I tend to forget that many people, including many tree professionals, don't know about it, or have never used some of its features. In fact, with new young people coming along in the industry all of the time, most of you may not know about it. We will take care of that now.

The Utah Tree Browser (UTB) is a website and app that offers information about trees that survive and grow in Utah. It includes at least some information on 245 tree species and a few notable cultivars found in Utah. It contains most of the tree species and information included in *A Guide to the Trees of Utah and the Intermountain West* that I wrote years ago. It's still available at bookstores and online.

The website gets updated pretty regularly, so it has a few more species than the book. The book, however, also contains a dichotomous key for tree identification, a crabapple selection guide, and a few other things the website doesn't.

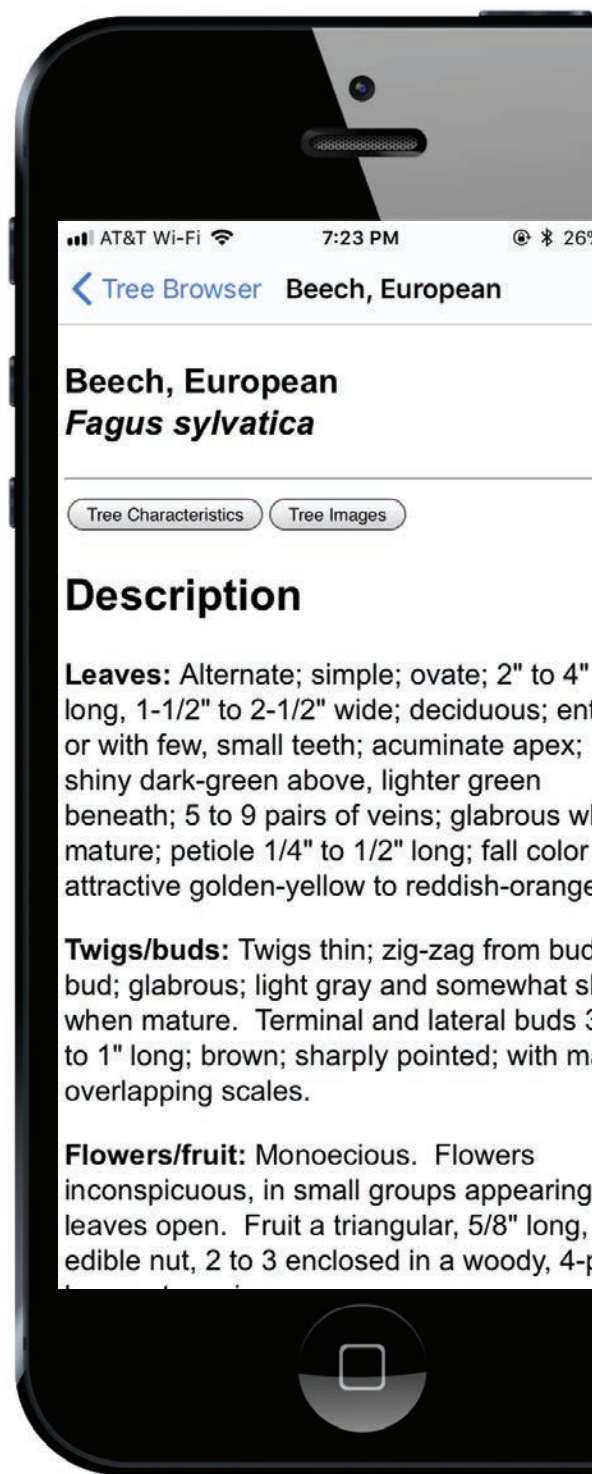
The UTB's 245 tree species are listed in a table alphabetically by either common name or Latin name. The latter can be useful because if you list trees alphabetically by genus and species, all species in any one genus

are listed together, meaning that trees with similar characteristics are often near each other in the table as you browse. Identifying trees or other plants does not always require getting a plant identified right down to species. That is great, but some genera (plural of genus) are really difficult to get all the way to species, and often it doesn't matter much anyway. Willows (*Salix* genus), for example, often are hard to identify down to species, but if you know it is a willow, you know a lot about how to take care of it (lots of water) and that it has weak wood that is very prone to insect and disease damage.

When you open the UTB website, you first have the option to either View the Tree List, which includes all species, or Search/Select Characteristics to see just the species that meet your selected criteria. For each species you view in the UTB, there are some common elements. For example, select almond (or *Prunus dulcis*). The top of the page lists the common name, followed by the Latin or scientific name, including the tree's genus and species. After that the tree's Latin and common family name is also given, for example, Rosaceae – Rose Family.

This is helpful both because rose family plants have not only common ornamental and cultural characteristics,

but also some common identifying characteristics. The rose family, for example, includes many very ornamental species with showy flowers and sometimes showy bark. Rose family plants are very culturally diver-



se, so that doesn't help you much. But it is very helpful from an identification standpoint to know most rose family plants have alternate leaves (one leaf at each point along the stem), simple (one blade per leaf), and serrate (leaf edges have jagged teeth), with bark that often has horizontal lenticels (corky ridges) and perfect showy flowers containing male and female parts in each flower.

Going down the almond page, you'll find many captioned photos. Click on the thumbnail to see full sized photos. Six photos show almond trunk, bark, flowers and canopies in bloom.

Following the photos, there is a fairly detailed species description with identifying characteristics (leaves, twigs/buds, flowers/fruit, bark, wood, geographic information about where the tree is native, where it occurs in Utah, its cultural preferences, its landscape uses and personal comments like where I have seen the tree in Utah, my impressions of it and a brief list of some notable cultivars.

Several bars or buttons also show at the bottom of the page if you click on Search/Select Characteristics. This is where you can use the UTB to its full potential and produce a list of species that are suitable to grow for different purposes or under different site characteristics, or have particular ornamental features.

There are 14 characteristics to choose from under General (Family, Cultivars <available>, Hardiness Zones, Type <conifer or broadleaf>, and Utah Native), Growth (growth rate, mature height, longevity, power lines <OK under?>, and crown shape), Ornamental (bark, fall color, flowers, foliage, and fruit), and Tolerance of... (shade, salt, drought, poor drainage, alkalinity, and transplanting <ease of>).

You can select one or more characteristics, though if you select too many, no trees may meet all of them. You also can search for a word or words that occur anywhere in a description.

When I search for "purple", for example, the list of 245 narrows down to 62 species, including European alder with purple buds, Mahaleb cherry with purple fruit that matures black, and black locust with its cultivar 'Purple Robe'.

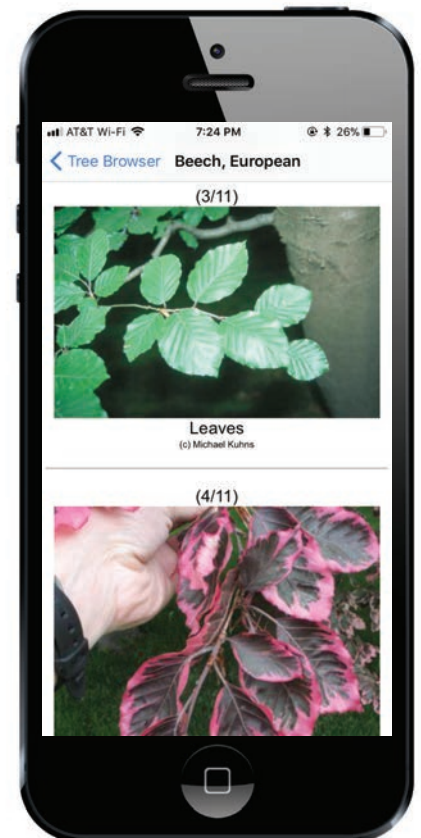
Whether you do a search or select characteristics, the list shortens to only display appropriate species. To see the entire list, click Reset Search. Besides browsing through lists and tree information, you can also mark your favorites (click a button on the right side) and return to them later. You can also click an icon on to generate a printable fact sheet for your selected species.

So if you are new to the Tree Browser, check it out and learn about some

trees. If you haven't used the Selection feature yet, give that a try-maybe when you start planning your spring tree plantings.

Finally, if you see that we are missing a species' photo and you have a good one (or you have a better photo than ours), please send your photo along with your name, the species, and a sentence giving us permission to use it.

We may add it to the Tree Browser, along with a credit, and keep this useful resource growing.



Tree Browser

ANCESTORS CONNECTED BY TREES

BY TY NIELSEN

As I grew older, I began to wonder about my ancestry. What were they like? What did they do for work? Did they have traits or dispositions similar to mine?

These questions peaked my curiosity. I began searching and found that my grandfather and great-grandfather both worked in green industry. Instilling the love of trees to his sons, my Great Grandfather Thorup planted Liberty Park's trees in Salt Lake City. He also supported his family by operating his own greenhouse. One relative was a King's stable master, which helps me understand my connection to horses. Another relative was the first governor of Connecticut, which helps me understand my desire to be involved in public service. I also learned of ancestors who were saddle makers and cobblers, which might explain why I like to work with leather.

My middle name is Thorup, which happens to be my mother's maiden name. As a child I kept this information secret because people would tease me when they heard it. Nevertheless, I was proud of my name and my aunt, who was heavily into genealogy, told me that if I ever came across anyone with the same name and spelling that I could be sure that we were related.

Shortly after I began work in West Jordan, I learned of two Thorups working for the City. It turned out that my aunt was right. They are distant cousins on my paternal side (great grandchildren of my great grandfather's brothers). I shared this information on social media and quickly learned that a neighbor three houses down is related to my grandfather. She has first cousins in nearby Bluffdale--one is a member of the Bluffdale Arts Council.

One cousin shared a family photo on social media and I recognized the face of Jana Christensen, Bluffdale's Tree board Chair! That was a very surreal moment. I find it very interesting that a man in the late 1800s, imparting the love of trees to his sons, would have two great grandchildren



who are passionately working with trees would bump into each other this way.

Never in a million years would I have guessed that this amazing woman, who loves trees as much as I do and who I worked closely with for many years, is a direct relative. My great grandfather's passion for trees continues through his lineage to Jana and me--and our love of trees unites us. It is clear to me that love for trees and the natural world is a heritable trait that can be passed on through generations. This passion is a driving force that can bring people together.

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ISA SURVEY SAYS!...

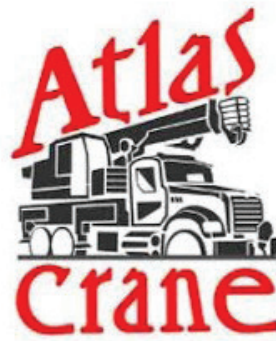
Here are a few results from the most recent ISA survey of Utah participants...

Holding a credential continues to be the norm for Utah ISA members. More than 70% of all arboricultural professionals and more than 80% of ISA members are ISA credential holders. More than nine in ten (93%) credential holders are Certified Arborists. The Master credential and each of the specialist credentials are held by fewer than 10% of members. Twenty percent hold the relatively new Tree Risk Assessment Qualification. Holders pursued their ISA credential to expand professional knowledge (77%), for personal pride in earning the credential (66%), to demonstrate knowledge/qualifications to others in the industry (62%) and to establish themselves in the industry (52%). Among ISA members who do not currently hold a credential, 30% are in the process of obtaining an ISA credential and 32% plan to pursue a credential within the next 1 to 2 years.

Participation in ISA components has increased since 2012. Nearly three-quarters (73%) of ISA component members attended a component event in the past 24 months, and 36% have attended 3 or more events. Members attend these events to learn new information (81%), earn CEUs needed for ISA and other industry credentials (77%), and maintain professional networks (61%). Not living/working near events (31%) and inconvenient timing (29%) are the main reasons given for not attending component events.

The main motivations for seeking education are personal development (71%) and CEUs (58%). Only 28% say they are motivated by career advancement. Education topics that are most important are tree risk assessment (52%), diagnosis and plant health care (45%) urban forestry (37%), tree maintenance (36%) and pruning (30%).

If you are interested in the full report, please contact Lisa Hanussak at lisa@utahurbanforest.org



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Why do I want to become a certified arborist?
Justin Cameron

I have always loved trees. Whenever I travel, I observe the surrounding landscapes and silently think about what I enjoy and things I would change. I have always had a passion for trees and the nobility they offer to landscapes. Trees are beautiful, but they can be treated poorly and planted in the wrong location, environment and manner. They can suffer greatly from poor irrigation, different pests and improper pruning. We can either make or break a trees' existence. They have such great potential and, if taken care of properly, can share their beauty for many years.

The Utah Community Forest Council/International Society of Arboriculture-Utah Chapter is a non-profit organization that advocates for proper management and care of Utah's community forests through partnerships, and public and professional education. We don't just like trees, we love them.

www.utahurbanforest.org

WE ♥ TREES

MAKE A COMMITMENT TO SUPPORT YOUR COMMUNITY FOREST



UCFC
UTAH COMMUNITY
FOREST COUNCIL
ISA UTAH CHAPTER



Cut along the line and stick up somewhere

**UCFC/ISA Utah Chapter
Membership Application
Membership good for one year from signup date**

UCFC/ISA Utah Chapter Membership Options

Individual: Available to anyone who supports the UCFC mission. An individual member may vote on board elections and is eligible to serve as a chapter officer or board member.

Student: Available to full-time students enrolled in arboriculture courses or closely related fields at a college or university, and who supports the UCFC mission. A student member may vote on board elections and is eligible to serve as a chapter officer or board member.

Lifetime: Available to an individual who supports the UCFC mission. A lifetime member may vote on board elections and is eligible to serve as a chapter officer or board member.

Corporate: Available to a business with 100 or more employees and supports the UCFC mission. A corporate member shall have one vote on board elections and is eligible to serve as a chapter officer or board member.

Affiliate: Available to a business with 99 or fewer employees and supports the UCFC mission. An affiliate member shall have one vote on board elections and is eligible to serve as a chapter officer or board member. Annual dues are based upon the number of employees registered with membership.

~ ~ ~ ~ ~

International Society of Arboriculture Dues

Contact the ISA at 888-472-8733 or www.isa-arbor.com to download application. ISA

Professional Member dues are \$135; ISA Senior dues are \$70; ISA Student dues are free.

What is the UCFC/ISA UT Chapter?

The Utah Community Forest Council/International Society of Arboriculture, Utah Chapter is a nonprofit organization that advocates for proper management and care of Utah's community forests through partnerships, and public and professional education. Learn more at www.utahurbanforest.org

Benefits of Membership

Your membership supports efforts to preserve and protect Utah's community forests, which benefits us all. Members receive the following:

- UCFC website listing of Certified Arborists for Hire and Consulting Certified Arborists
- Discounts on UCFC-sponsored workshops
- Notification of UCFC events, including those that offer CEU credits
- Discounts on educational materials and publications available through UCFC
- Quarterly issue of Arbor Essence, UCFC's newsletter
- Opportunities to network with people your industry

PAYMENT OPTIONS ON THE BOTTOM OF THE NEXT PAGE





We would like to thank Brad Hays for his service on the board for the last 2 years and his participation on committees.

The Utah Dixie Region has really benefited from his presence on the board. The City of Santa Clara is very lucky to have him.

We understand that increased responsibilities can limit how far we can stretch, but we know that the surrounding cities and communities will reap the rewards from his close presence.



Thank you,
A. Mike Lopez
ISA Utah Chapter/UCFC President

We would like to thank Jason for his involvement with the board and his board chairman responsibilities for the past two years.



I would like to personally thank Jason for his efforts in the Summit and Salt Lake Valley areas. Jason is really one of those people that sticks out in a crowd in a good way because everybody recognizes him from his tree efforts. Last year we were both at the Santana concert at Red Butte and we ran into two or three different donors/volunteers of his. Him having scruffy hair, long beard, and the self-proclaimed „BAR-Thartts” (just regular carhartts, just go along with this) that he wears

he is easy to spot. A real life Lorax, he even looks the part.

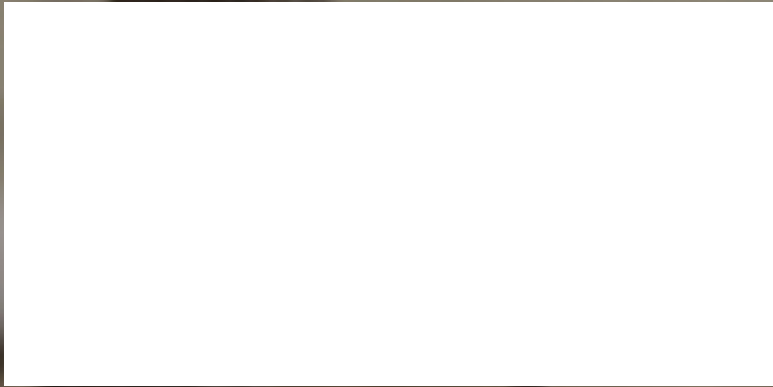
Along with that, he has done some plantings in some needed areas. From helping veterans to doing a planting dedicated to a young girl in my neighborhood in Spanish Fork, Utah that has stage 2 cancer.


Trees have really saved Jason and all he wants to do is reciprocate that back to the community.

We wish Jason the best in his continued efforts in the community and with ReLEAF Utah.


Thank you,
A. Mike Lopez
ISA Utah Chapter/UCFC President

Always look online for the most current Calender of Events at www.utahurbanforest.org



 (801) 446-8229

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