



The Prairie Arborist

The Official Publication of the ISA Prairie Chapter Issue 1 2021



Looking forward to climbing with the Grandkids
This tree monkey is Sophie. She lives on an acreage near Lloydminster, AB.



Bonnie Fermanuik
President

Thanks to all of you that have renewed your membership with the Chapter. As we have made it through the February deep freeze, I'm sure you are all planning for the spring and summer seasons.

I see that a lot of you took advantage of the first two webinars in a series of 5, that are being held each month until June. Special thanks to our sponsor, Davey Tree Expert Company, for supplying the speakers from the Davey Resource Centre.

As we all work through these challenging times, we need to take the time to look out for our friends, family and co-workers.

Isolation effects everyone differently. If you see a change in a person, that's the time to care.

Safety is mental health and physical health and we have been pretty good at setting out new better protocols for the physical side but we may not be spending the time required on the mental care. Stay safe and try not to judge others; we don't know the shoes that they walk in.

The board had their annual face to face (or now zoom) meeting to plan for 2021. We plan to proceed with the fall conference in St Albert October 25, 26 (in person or virtual) but have decided that we can't proceed with the tree climbing competition.

Please if you, your community or company are doing something a little different, please let our membership know by writing an article in the next newsletter.



Toni Marie Newsham V.P.

Coming Soon! Women's Tree Climbing Workshop

The ISA Prairie Chapter has a strong and growing presence of women in Arboriculture careers. However, many female

Arborists may be the only woman on their crew or even within their company.

The Chapter would like to create an opportunity for female Arborists to meet, network, learn new skills, and climb some trees! A committee from the ISA Prairie Chapter is working hard to create a weekend experience for female arborists of all levels to learn from each other and instructors.

Plans are all but finalized. **This workshop will take place June 25, 26, 27 2021** on the Campus of Olds College in Olds, Alberta. Arboriculture specific instruction space, accommodations for participants right on campus, and great meal options all make it the perfect venue.

Continuing Education Unit credits (CEU's) will also be made available for Certified Arborists.

This will be a fantastic way to learn and support each other in a growing workforce.

Watch your email and the Prairie Chapter Facebook page for details.



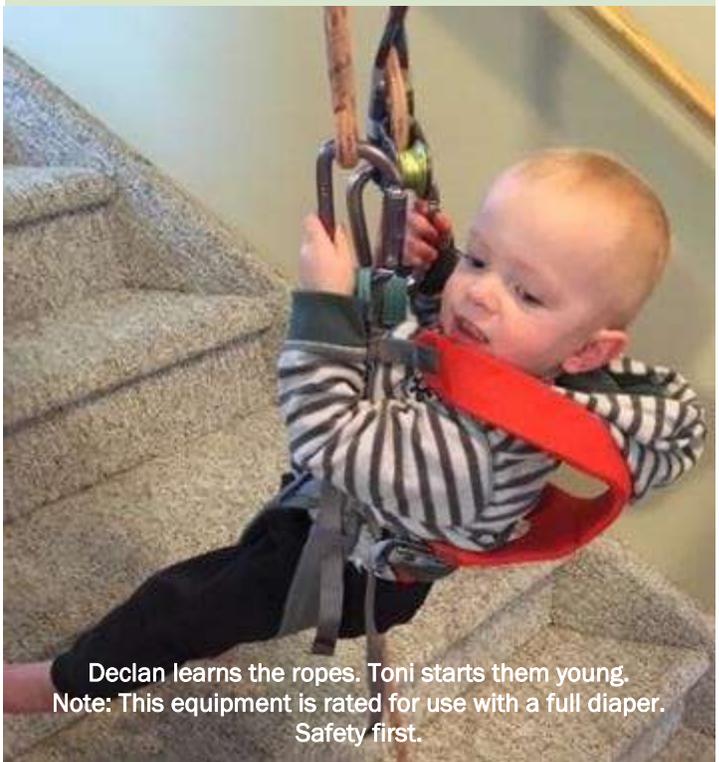
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Declan learns the ropes. Toni starts them young.
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Save the Date

Certification Exam

There will be a paper based exam at Olds College on May 8, 2021

You must register to write the exam 12 working days in advance of the exam date.

The last day to enroll is April 22

Apply for eligibility here:

<https://www.isa-arbor.com/Credentials/Apply-Now/Apply-for-Eligibility>

Enroll to write the exam here:

<https://www.isa-arbor.com/Credentials/Apply-Now/Enroll-to-Take-Exam>

Save the Date

The first ever Women's Tree Climbing Workshop in the Prairie Chapter

will be held on the Olds College Campus and in their Arboriculture Climbing Lab June 25 - 27 2021

Don't miss this opportunity to learn the ropes and/or refine your skills.

Climbing, learning and networking in a safe and comfortable environment.

For more information please call the Prairie Chapter office at 866-550-7464



Save the Date

Tree Risk Assessment Qualification Renewal and Full Workshop

The next workshop will be in Edmonton Alberta

TRAQ Renewal June 7
Full TRAQ Workshop June 8,9,10

Must be registered by May 7 to get a seat in these workshops.

Seating is limited.

For more information please call the Prairie Chapter office at 866-550-7464



Save the Date

The Prairie Chapter is planning a live Conference to be held in St. Albert, AB October 25 & 26 2021

Managing Growth, Limiting Liability, Covering Your Ash

Don't miss this long overdue opportunity to network and bump elbows with your Colleagues

More information to follow as the planning unfolds



ASCA's Tree and Plant Appraisal Qualification (TPAQ)

This course is being revised.

There are no workshops available this time.



The 2021 Prairie Chapter Tree Climbing Competition

planned for August 28, 29 in Regina, SK. has been Covid Cancelled

Things should start to get normal in 2022

Submitted by Jean Mathieu Daoust

The International Society of Arboriculture and the Prairie Chapter tries to recognize outstanding achievements in the arboriculture profession, as well as the efforts by individuals to make an impact on the urban environment.

International Society of Arboriculture True Professionals of Arboriculture Recognition Program
 The True Professionals of Arboriculture program recognizes members and certified professionals who are role models to their peers and positively represent the profession to the public.

Prairie Chapter Gold Leaf Awards – Outstanding Arbor Day Activities
 This award program recognizes individuals, organizations, and communities for outstanding Arbor Day programs that promote trees, tree care and tree planting. Recipients of this award are chosen regionally by a chapter of the ISA.

Outstanding Landscape Beautification Activities
 This award program recognizes individuals, organizations, and communities for outstanding Landscape Beautification programs or community landscape beautification projects that have a significant impact on communities or regions. Recipients of this award are chosen regionally by a chapter of the ISA.

Outstanding Contribution to the Board Board Member

In recognition of a Board member’s sustained outstanding efforts or contribution to the advancement of the ISA Prairie Chapter and its goals, events or special projects.
 Nominees must be serving on the Board currently or newly retired from the Board

Student Recognition Award

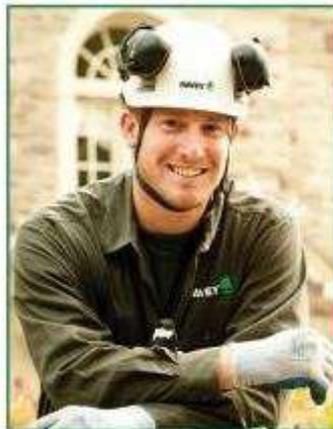
In recognition of sustained outstanding efforts or contribution to the advancement of the guiding principles of the ISA Prairie Chapter. Nominees must be a student enrolled in an arboriculture/horticulture program or newly graduated

Lifetime Achievement Award

In recognition of sustained outstanding efforts or contribution to the advancement of the ISA Prairie Chapter and the Arboriculture Industry on the prairies.
 Nominees must be retiring from active employment to qualify for this award.

If you would like to nominate anyone for any of these awards please contact:

Jean Mathieu Daoust jdaoust@bartlett.com



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Get your elm pruning done by March 31. To help keep Alberta Dutch elm disease (DED) free, the Society to Prevent Dutch Elm Disease (STOPDED) encourages everyone to pay attention to the *Provincial elm pruning ban* between April 1st and September 30th.

To help eliminate beetle habitat, it is important to properly prune all dead wood out of your elms and dispose of all pruned elm wood and elm firewood by burning, burying or chipping by March 31st. Stored elm wood can harbor the elm bark beetles that can carry DED.

Elm bark beetles, responsible for spreading the deadly DED fungus, feed on healthy elms and breed in dead and dying elm trees. If elm trees are pruned during the pruning ban period, these beetles which are active at this time can be attracted to the scent of the fresh wound and possibly infect your otherwise healthy elm with DED. Once an elm tree is infected with DED it will die within that year.

Having your tree pruned properly is important. Many trees are killed or ruined annually from improper pruning. Pruning like any other skill requires knowledge and should be done by a professional certified arborist who can determine what type of pruning is necessary to maintain or improve the health, appearance and safety of your trees.

Topping or removing an excessive amount of live wood is not recommended on any variety of trees and will weaken the tree's structure.

For more information on pruning or ISA Certified Arborists check out:
<http://www.isaprairie.com>

Or for more information on STOPDED or DED visit:
www.stopded.org

Janet Feddes-Calpas
 STOPDED Executive Director
 403-782-8613



Picture is from City of Regina Website

**Alberta Elm Pruning Ban
 April 1st to September 30**

**Manitoba Elm Pruning Ban
 April 1st to July 31**

**Saskatchewan Elm Pruning Ban
 April 1st to August 31**

Keep Alberta DED free

- Under the Alberta *Agricultural Pests Act (APA)* "Pest and Nuisance Control Regulation (PNCR)" the Dutch Elm Disease (DED) pathogens, smaller European elm bark beetle, and the native elm bark beetle are named declared pests.
- DED prevention/control measures for Alberta are enforceable under the APA and are found on the STOPDED website.
- Elm trees from a DED infected province cannot be shipped into Alberta.
- Elm Pruning Ban is April 1 -September 30 annually.



Society to Prevent Dutch Elm Disease
www.stopded.org 1-877-837-ELMS (3567)









Submitted by Maureen Sexsmith-West

Canadian TREE Fund Keeps on GROWING

Reflections on 2020 and the year ahead

While 2020 has certainly been a challenging and most unusual year, it is even more so for a charity organization like ours who is so dependent on the generosity of others to make our work possible. The impact and restrictions in how we go about living our lives, brought on by Covid 19 has forced us to be imaginative, and find new ways to get things done.

As expected our 2020 revenues were down in comparison to other years, a couple of the programs we funded last year had to be postponed, and our major fundraising event the Tour des Trees was conducted on a virtual basis. However, there are a few silver linings and milestones reached that in some ways we hope will be a source of optimism for the future.

In November we celebrated our 25th anniversary. Over that time our total revenue has climbed well over \$800,000, and, with the research and education programs we were able to fund this year, our accumulated total now stands at 100 projects. We are very grateful to the people and the organizations that continue to support us, and hope they will carry on providing funding to further our cause and help to elevate the science of Arboriculture through educa-

tion and research.

For those wishing to help with our mission, and be part of our 2021 recognition program, simply click on the link to our website www.canadiantreefund.org with easy to follow instructions and information including complete list of our 2020 Donors, all projects we have funded over the past 25 years, and the details of our activities in 2020.

As we move forward in 2021, I hope everyone will take the time to reflect on the things that truly add value to our lives, be mindful of the things we should be grateful for, and find inspiration that will encourage you to become an even better person in the year ahead.



2020: Year in Review

In a year of uncertainty and change, we found new ways to connect and engage our network of professionals around the world. From our most attended conference ever and a new resource email, to new digital badges and educational products, a lot has changed. Here's our year by the numbers.

Data from: 1 December 2019–1 December 2020

23,699 ISA Members Worldwide
 66 Components (Chapters)
 49,839 Credential Holders
 9,004 TRAQ Credential Holders
 49,999 Digital Credentials Issued
 10 New Book and Online Products
 1,772,695 Pageviews on ISA arbor.com

First ever virtual conference!

3,600+ registrants
 From 30 countries
 123 students sponsored
 50+ sessions offered

2021 International Tree Climbing Competition Update

With the uncertainty of future shut downs, and the continuation of travel and meeting restrictions globally ISA made the decision to not hold the 2021 International Tree Climbing Competition (ITCC). The safety of our **members, competitors, volunteers, and team members remain our priority.**

ISA recognizes the importance of this event, and will continue to work with our volunteers, committees, and leaders to ensure we are able to host this event successfully and safely in the future. This is consistent in our decision to host the 2021 ISA International Conference virtually, and is made early in an effort to respect the time and commitment of our competitors, volunteers, and all who make this event possible.

Regional competitions may be possible as non-qualifying events; however, ISA will make determinations at a future date if those events are able to occur this year as more data becomes available. ISA appreciates your continued support during this unique time, and we look forward to hosting these events in the future.



Early Bird Registration Now Open for the ISA 2021 Virtual Tree Climber Summit!

ISA has been hard at work creating a brand new event, the ISA 2021 Virtual Tree Climbing Summit.

[ISA 2021 Virtual Tree Climber Summit!](#)

This event will focus on the best parts of what brings the climbing community together growing, learning, and networking with peers from around the world.

Join us **13 July** for this exciting virtual event geared specifically for you! Register before 30 June for a discounted registration fee of \$49! All educational sessions and CEU opportunities will be available for on-demand viewing for registered attendees for 60 days after the event.

This experience will feature an amazing keynote address given by a passionate climber who has overcome significant challenges and shares a joy of climbing (although scaling a different medium). There will be several sessions, including one on ISA TCC climbing gear and how to perform a proper gear check before tree climbing competitions led by Phillip Kelley. Kelley is an ISA Certified Arborist® and an experienced trainer and practitioner, and the current ISA ITCC Head Technician. Thank you to Husqvarna for sponsoring this session.

Additionally, learn from past ITCC champions and competitors as they discuss what it takes to compete at the highest level and how participating in these ISA events has impacted their careers. We will have a roundtable discussion on safety standards with arborists from around the world sharing their insights on PPE and safety training in the industry. We will also host live regional networking sessions at times that work for attendees so they can connect with arborists and climbers from their region or from other places around the globe.

Connecting and learning has never been more convenient.

For more information and to register for this event click the link below. We look forward to connecting at the ISA 2021 Virtual Tree Climber Summit!



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This response plan is a guide to help responsible authorities mount an effective response to a DED event as quickly as possible. A rapid, effective, timely response to a DED finding is in keeping with the requirement of the Agricultural Pest Act (APA) since DED and elm bark beetle are named declared pests. All municipalities, counties and MDs in the province of Alberta have the responsibility and authority to prevent and control DED under the APA.

APA@https://open.alberta.ca/publications/a08_PNCR @ https://open.alberta.ca/publications/2001_184

In advance of a DED event, it is recommended to know who, in your municipality, are designated under the APA to enforce the DED Prevention/Control Measures and have them trained to be able to identify elm wood and DED symptoms. The APA Section 10 (1) requires pest inspectors to be appointed in each municipality. This municipal appointment can be given to any existing municipal staff. Agricultural fieldman, community peace officer and a municipal officer that has dual municipal and provincial appointments are also designated to enforce the DED Prevention/Control Measure under the APA.

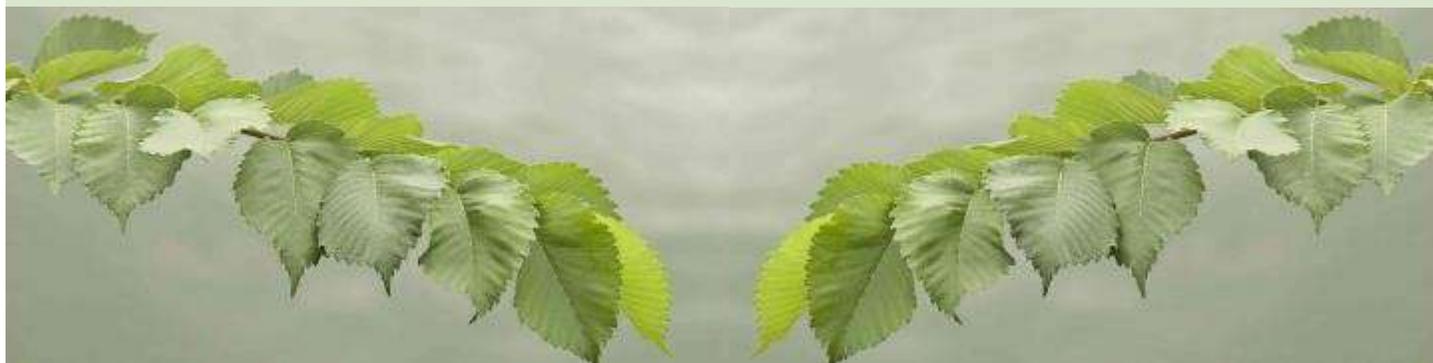
For additional information refer to the **DED Prevention/Control Measures and Responsibilities and Authority under the APA** @ <https://open.alberta.ca/publications/dutch-elm-disease-prevention-control-measures-responsibilities-authority-apa>

<i>Risk Category</i>	<i>Criteria</i>	<i>Response</i>
1	Absence of DED	<ul style="list-style-type: none"> • Understand municipality DED prevention/control responsibilities under the APA. • Become familiar with the DED Prevention/Control Measures, APA and PNCR Form2. • Know who in your municipality can enforce the DED Prevention/Control Measures. • Appoint pest inspectors under the APA. • Train staff/inspectors/officers to recognize DED symptoms and elm firewood. • Enforce prohibition on elm pruning from April 1 to September 30 using PNCR Form2. • Enforce prohibition on storage of elm wood using PNCR Form2. • Collect and inspect elm materials for (elm bark beetle) EBB activity and dispose. • Designate an elm wood disposal site where wood may be burned or buried. • Inform the public on location of elm wood disposal site. • Place and maintain EBB pheromone traps, as needed, to detect new and changes to populations of EBB. • To understand where more intensive monitoring and surveillance is necessary an updated inventory for public elm trees is recommended to include location, size and health. • Work with and encourage property owners to do an elm inventory. • Sample symptomatic elms and submit to the provincial lab. • Public awareness in form of public communication/education programs on elm pruning ban, elm wood

storage and disposal, recognizing DED signs/symptoms, importance of maintaining tree health, risks of transporting firewood, where to report DED suspect trees.



- 2 Presence of DED **Once a sample has been confirmed positive for DED by the provincial lab, all action in this section should be immediate and focus initially on the area within a 1 km radius bubble¹ of the positive tree. If resources allow, this area can be expanded.**
- Remove all positive elm tree or trees including the stumps. If there are multiple incidences of DED infected trees throughout the municipality, each location should be treated as a bubble.
 - Inspect the bark on branches and trunk of removed elm trees for elm bark beetle activity. Peel back the bark to expose any beetle galleries and look for beetles. Photograph beetle gallery pattern and collect beetles to have identified.
 - Be aware that the roots of adjacent elm trees may have grafted to the roots of the infected tree, allowing the fungus to pass between them. These trees must be watched closely for symptoms of DED. To be safe, adjacent trees may be considered for immediate removal along with the confirmed infected tree.
 - Sample all suspect elm trees immediately surrounding the positive tree.
 - Survey within the bubble of private and public trees for DED symptoms along with an intensive search for elm wood and other sources of possible beetle infestation such as dead and dying elm trees.
 - Enforce prohibition on storage of elm wood using PNCR Form².
 - Remove and dispose of any elm wood found in the bubble immediately.
 - Place additional elm bark beetle traps in the area to monitor bark beetle populations and detect new and/or changes to populations of elm bark beetles.
 - While doing the surveillance within the bubble supply home owners' information to include:
 - Reasons for the intensive survey
 - A copy of the DED Prevention/Control Measures which are enforceable under the APA
 - Numbers to call to report elm firewood violations and symptomatic trees
 - Public Service Announcement to inform the general public about the DED positive tree and advice on what they can do to help stop the spread.
 - Once the bubble area has been surveyed it is recommended to increase surveillance of elms outside the initial bubble to ensure that the infections are not more-widespread.
- 1 City of Saskatoon Response Plan (1 km radius bubble)**
- 3 Post Presence of DED (2 years)
- Annual follow-up of the DED infected bubble with search for elm wood and symptomatic trees.
 - Evaluate cost of management.
 - Return to risk category¹



Scientists discover attacking fungi that show promise against emerald ash borer

by [University of Minnesota](#)

Since its introduction, the emerald ash borer (EAB) has become the most devastating invasive forest insect in the United States, killing hundreds of millions of ash trees at a cost of hundreds of millions of dollars.

Now, new research from the University of Minnesota's Minnesota Invasive Terrestrial Plants and Pests Center (MITPPC) shows a possible path forward in controlling the invasive pest that threatens Minnesota's nearly one billion [ash trees](#).

as they develop, or may enter the tree through the tunnel galleries. Some of these fungi also seriously affect urban trees, causing rapid wood decay which result in hazardous tree situations.

From Rochester to Duluth, researchers gathered samples where ash is affected by EAB. Through DNA sequencing, scientists identified fungal isolates and revealed a diverse assemblage of fungi. This included entomopathogenic fungi that attack insects, as well as other fungi that cause cankers—which help EAB kill trees—and some that cause wood decay.

"Before now, we simply haven't been sure what fungi are



Through DNA sequencing, scientists identified fungal isolates and revealed a diverse assemblage of fungi. This included entomopathogenic fungi that attack insects, as well as other fungi that cause cankers – which help emerald ash borer kill trees – and some that cause wood decay. Credit: University of Minnesota

In a recent study published in *Fungal Biology*, MITPPC researchers identified various fungi living in EAB-infested trees—a critical first step in finding fungi that may be harnessed to control the spread of EAB, and ultimately, prevent ash tree death.

"We discovered that several different species of fungi attack EAB and other insects, and they can now be further tested for their potential for biocontrol," said Robert Blanchette, the study's project leader and professor in the College of Food, Agricultural and Natural Resource Sciences. "This is a very important first step in the search for a biocontrol for emerald ash borer."

Larval EAB feed just beneath the bark, leaving behind tunnel galleries that can stretch up to 20 inches long. Beneath the surface, fungi—some of which may be capable of parasitizing the EAB—may be carried by the larvae

associated with EAB infestations in Minnesota. This project identified those species and, in doing so, opened up new possibilities for managing one of our state's most devastating tree pests," said Ben Held, the study's lead author and researcher in the College of Food, Agricultural and Natural Resource Sciences.

As research continues, the scientists will build on the work from this study to determine if any of the [fungi](#) can be used to kill the [emerald ash borer](#). Results will also be of value in helping control the insect in other parts of North America where EAB is found.

"Ash [trees](#) are vitally important to Minnesota," said Rob Venette, MITPPC director. "They reduce air pollution, [storm water runoff](#), and cooling costs, all while increasing property values in local communities. It's critical we work to protect them from this invasive pest."



By Toso Bozic

I will start with a simple rule when it comes to pruning trees: **“don’t prune it unless you have a good reason for it”.**

Each tree has its own natural shape, form and growth habit that has been developed through the process of natural selection. [Pruning](#) is the process where we can change natural shape, form and growth habits for our own reasons.

Let’s face it from tree’s perspective: pruning a healthy tree is always stressful; leaving tree with scars, reducing food factory production, and creating a hormonal imbalance.

Changing and reducing a tree’s internal hormonal flows (growth hor-

mones are auxin’s in apical buds and cytokinin in root buds) will create a “wreck” to its hormonal balances.

As a result of these hormonal imbalances, the tree adapts by going into survival mode and starts producing new growth (twigs, water sprouts or suckers) just to get necessary food sources for survival.

WHAT ARE THE REASONS TO PRUNE FROM A TREE’S PERSPECTIVE ?

A tree has a great ability to store energy produced during growing season to help it survive during winter-time. In spring that energy is channeled to develop a new growth (leaves, flowers and twigs). Pruning reduces the number of leaves (food factory) which enables more nutrients and water availability for the

remaining branches. The other critical component beside the food factory (leaves) is to have a healthy root system. Having a healthy and strong root system (no soil compaction, no root damage, good watering, and mulching) will help the part of the tree above ground by supplying necessary water and nutrients to grow and recover.

There is time when pruning is greatly beneficial from a tree’s perspective. Pruning of dead, diseased and damaged (3D) parts is a way to help the tree survive and recover. A tree does natural pruning itself every year. Small branches or twigs that do not get sunlight die and eventually fall off from trees

THE REASONS TO PRUNE TREES

(Continued on page 12)

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(Continued from page 11)

FROM HUMAN PERSPECTIVE?

Human perspective is the same as from tree perspective – remove dead, disease and damaged tree parts that are detrimental to overall tree health and survival. There are several more reasons why we prune trees:

1. Safety – as trees are part of places where we live, work and enjoy recreation or spiritual needs, there are always chances that the tree or part of it can fail and become hazardous to humans, properties, or other infrastructure. Pruning is one way to reduce safety hazards.



Water sprouts from improper pruning – topping

2. Maintain overall health and well being of trees – as mentioned above pruning does help to reduce a stress created by insects, diseases, and other environmental issues. Removing and eliminating an infected part will help tree to recover, survive and most importantly stop spreading the disease. Also, pruning will help the tree to rejuvenate and improve air circulation.

3. Increase flowering and fruit production – pruning will stimulate better fruit production.

4. Train young tree – pruning young tree helps to develop a strong framework for itself and avoid possible problems in future.

5. Increase aesthetics – this type of pruning does not benefit the tree but it is visually pleasing to humans.

6. Root pruning – sometimes you need to prune roots of young trees prior to planting to avoid “root circling” and develop better root structures.

Always keep in mind, you must perform proper pruning. Improper pruning will create more damage and reduce the health of the trees.



Water sprouts from improper shear pruning

CONCLUSION

It is important to understand how trees grow, their forms, structures, and natural abilities to survive. You need to have clear goals and reasons to prune trees. Pruning always creates stress to trees and they are just responding in their best way to survive. Improper pruning creates more damage and stress which overall reduces the life span of the trees. Never cut more than 25 % of live parts of the tree. Lastly, when it comes to tree pruning; sometimes we should think what is best for the tree; not what is the best for us.





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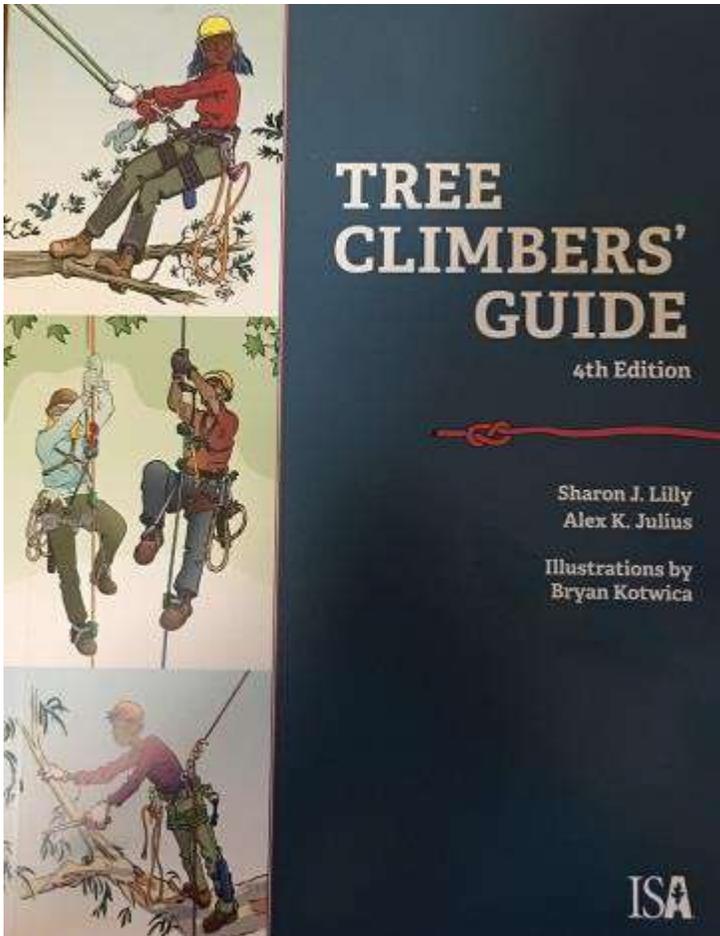


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The Newly Revised Tree Climbers' Guide, 4th edition is Now Available

Written specifically from the tree climbers' perspective, the newly revised Tree Climbers' Guide by Sharon J. Lilly and Alex K. Julius, helps arborists learn safe climbing and aerial tree work principles.

This guide is a basic text for tree climbers, as well as a study guide for the ISA Certified Tree Worker Climber Specialist® and Aerial Lift Specialist® exams. Each chapter includes a list of key terms and concludes with a workbook section.

Featuring more than 270 illustrations by artist Bryan Kotwica, the fourth edition includes three new chapters: Moving Rope Systems (MRS), Stationary Rope Systems (SRS), and Climbing Equipment.

Each chapter consist of a list of key terms and concludes with a workbook sections. Additionally, the *Tree Climbers' Guide* comes with appendices with answers to the workbook questions, a glossary and resources for further reference.



ARBORICULTURE

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Alberta - Spring 2021 Schedule

Tree Insect & Disease Management
Red Deer - April 7 - 9

Chainsaw Safety & Cutting Techniques
Edmonton - May 13
Calgary - May 18

Technical Tree Falling & Cutting
Calgary - May 20 - 21

Tree Pruning
Edmonton - May 14
Calgary - May 19

Modern Tree Climbing Systems
Calgary - June 14 - 16

Emergency Readiness & High Angle Rescue
Calgary - June 17 - 18

*Dates and location subject to change.
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Advertising Information

Full Colour	Member	Non Member
	Full Page	475
Half Page	250	290
1/3 Page	165	190
1/4 page	125	150
Bus card	75	85

(10% discount for ads in all 4 newsletters)

Newsletter submission deadlines

Issue Dates:	Submission Deadline
March	February 27
June	May 31
September	August 31
December	November 30

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Submit articles, ads, letters and written requests to:

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STIHL

RELIABILITY THAT COUNTS

NEW MS 500i GAS CHAIN SAW



The **MS 500i** is the first chain saw in the world to feature electronically controlled fuel injection, making it a true innovation. When it comes to professionally harvesting large trees, this high-torque machine cuts through wood with ease. Rapid acceleration and dynamic pivot behaviour mean that the **MS 500i** is perfect not only for felling and cutting into lengths, but also limbing. With sensor-controlled fuel metering, it is an excellent starter with outstanding engine performance, regardless of the altitude and ambient temperature. There's also no starting lever, which makes starting very easy under all conditions. Its engine technology, which is revolutionary for chain saws, and resulting intelligent lightweight construction results in the best power-to-weight ratio on the market.

- Optimum engine performance from the first pull under all conditions
- Injection technology – built-in sensors measure air pressure and internal/external temperature that ultimately passes information to the control unit, which determines the optimum fuel quantity and ignition timing
- Rapid acceleration in an unbelievable 0.25 seconds, enabling this high-torque machine to provide power immediately
- Captive nuts are connected to the lightweight sprocket cover so they don't get lost in the process of replacing the cutting attachments

Note: Wrap handle version is also available.

SPECIFICATIONS

DISPLACEMENT	79.2 CC
POWER OUTPUT	5.0 KW
WEIGHT [ⓐ]	6.2 KG/13.7 LB

[ⓐ] Weight with powerhead only.



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