



OHTEIA Annual Meeting
February 22, 2020
Tree Stand Safety:
An Analysis of Mid-West Falls

Objectives

- ▶ List the top 5 causes of tree stand falls.
- ▶ Compare and contrast falls from different types of tree stands.
- ▶ Explain the proper use of a Fall Arrest System.
- ▶ Identify new teaching strategies on Tree Stand Safety.
- ▶ Define the “ABC’s of Tree Stand Safety.
- ▶ Understand the role the Treestand Manufactures Association (TMA) plays in tree stand safety.
- ▶ Identify safe vs. non-safe tree stand set-ups.



TSSA Foundation's Mission

- ▶ Significantly **reduce tree stand incidents** through **promotion, education, and best practices.**
 - ▶ Long Term Goal:
 - ▶ Reduce tree stand fall incidents by 50% (2023).
 - ▶ Currently @ 46.5%

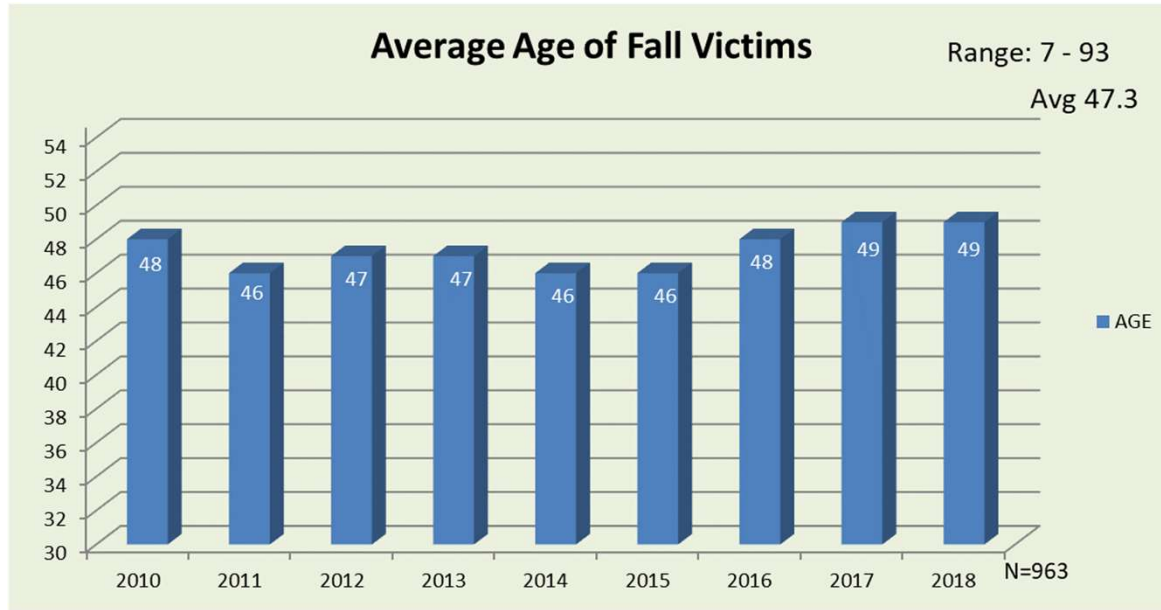
Our Partners....



What do the #'s tell us?



Fall Victim Age



► Mid-west Avg:

► **47**

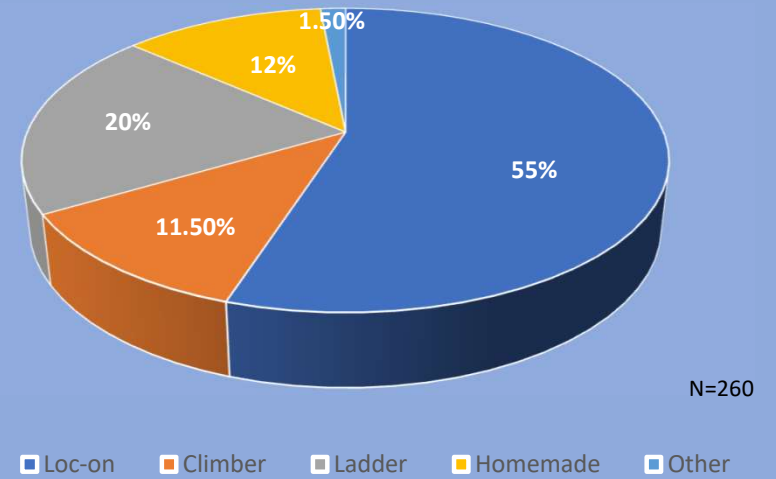
► Range: 10 - 96

% Falls by Stand Type



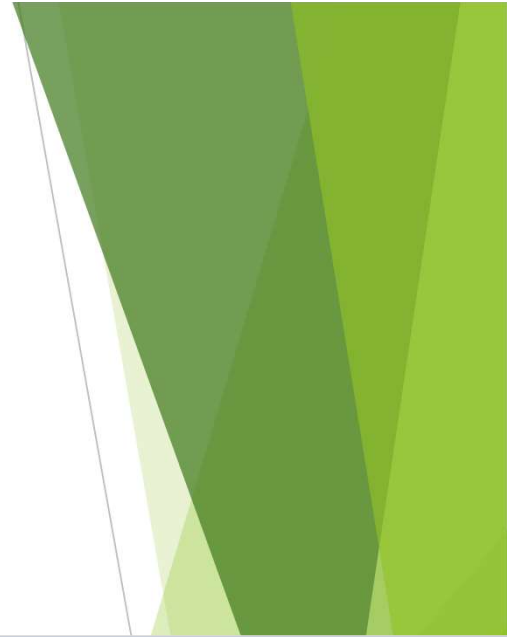
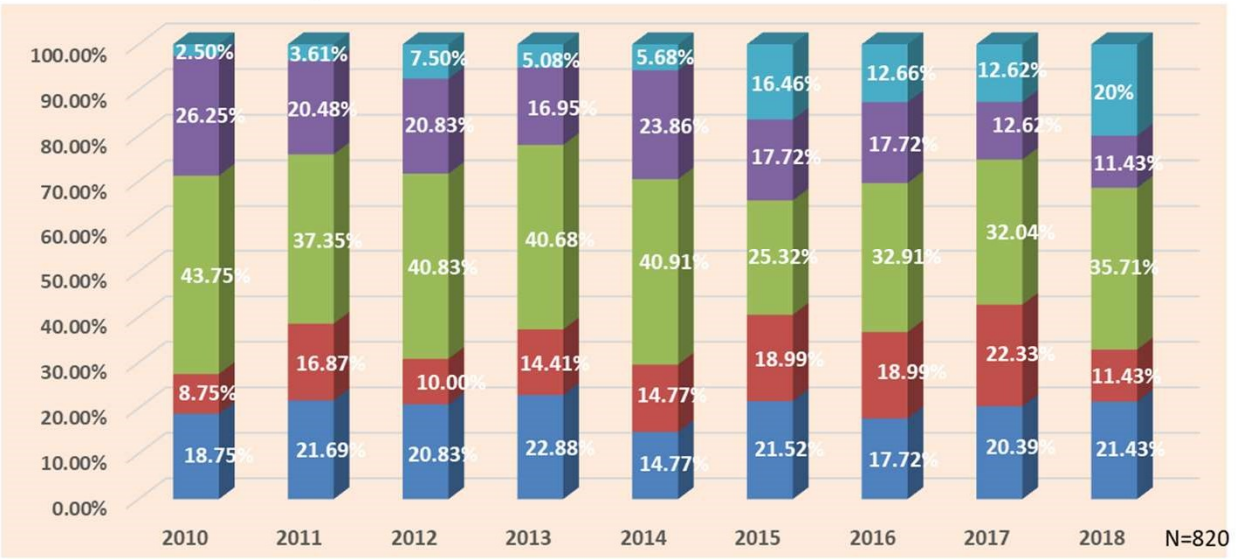
Stand Type

% Falls by Stand Type (Mid-west)



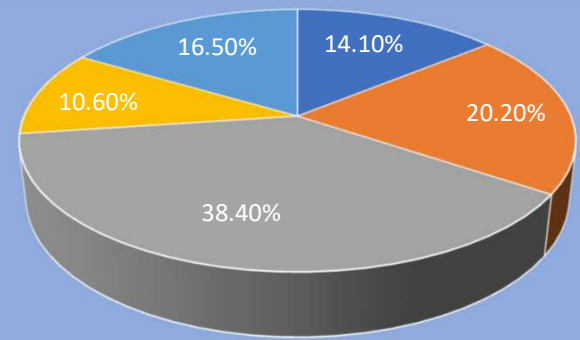
% Falls by Event

■ Ascent ■ Transfer ■ On Stand ■ Descent ■ Putting up or down



Falls by Event

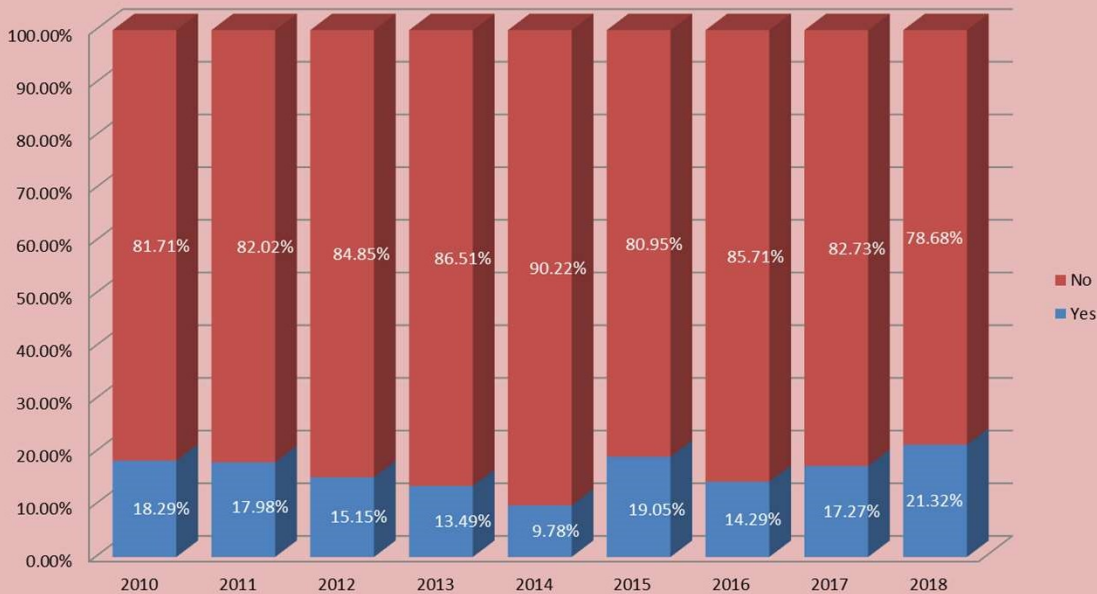
% Falls by Event (Mid-west)



N=291

■ Ascent ■ Transfer ■ On-stand ■ Descent ■ Putting Up or Down

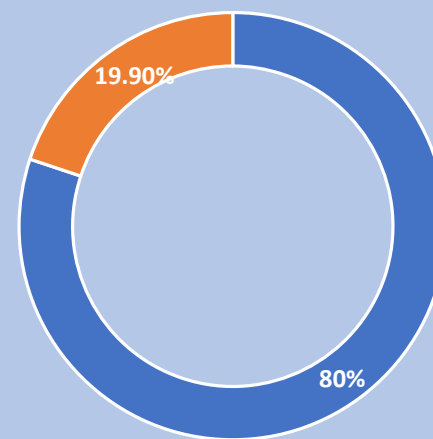
Harness with Them or Not



1 out 5
additional
SHOULD NOT
have fallen!

Harness with
or without

Harness



No Yes

N=306

Cited Fall Cause

		2010	2011	2012	2013	2014	2015	2016	2017	2018	Avg.
Medical	1	3	2	6	3	1	1	3	7	1	3.25
Bottom Fell	2	3	3	4	5	6	4	2	3	0	3.75
Loss grip/balance/Slip	3	17	22	29	29	21	25	25	25	14	24.125
Stand Shift	4	2	7	12	4	6	1	3	3	0	4.75
stand break	5	4	5	8	10	8	4	5	6	3	6.25
sleep	6	4	0	1	4	3	2	0	5	2	2.375
strap break/loose	7	8	14	11	26	11	8	14	11	8	12.875
human error	9	9	10	17	11	6	9	11	10	7	10.375
limb break	10	3	2	10	2	3	4	3	2	2	3.625
chain/cable break	11	1	1	6	8	1	4	7	6	4	4.25
step/ladder failure	12	4	4	7	4	9	11	10	10	10	7.375
alcohol	13	1	2	1	0	2	0	2	1	1	1.125
other	14	6	1	3	2	5	1	0	3	2	2.625
Total		65	73	115	108	82	74	85	92	54	694

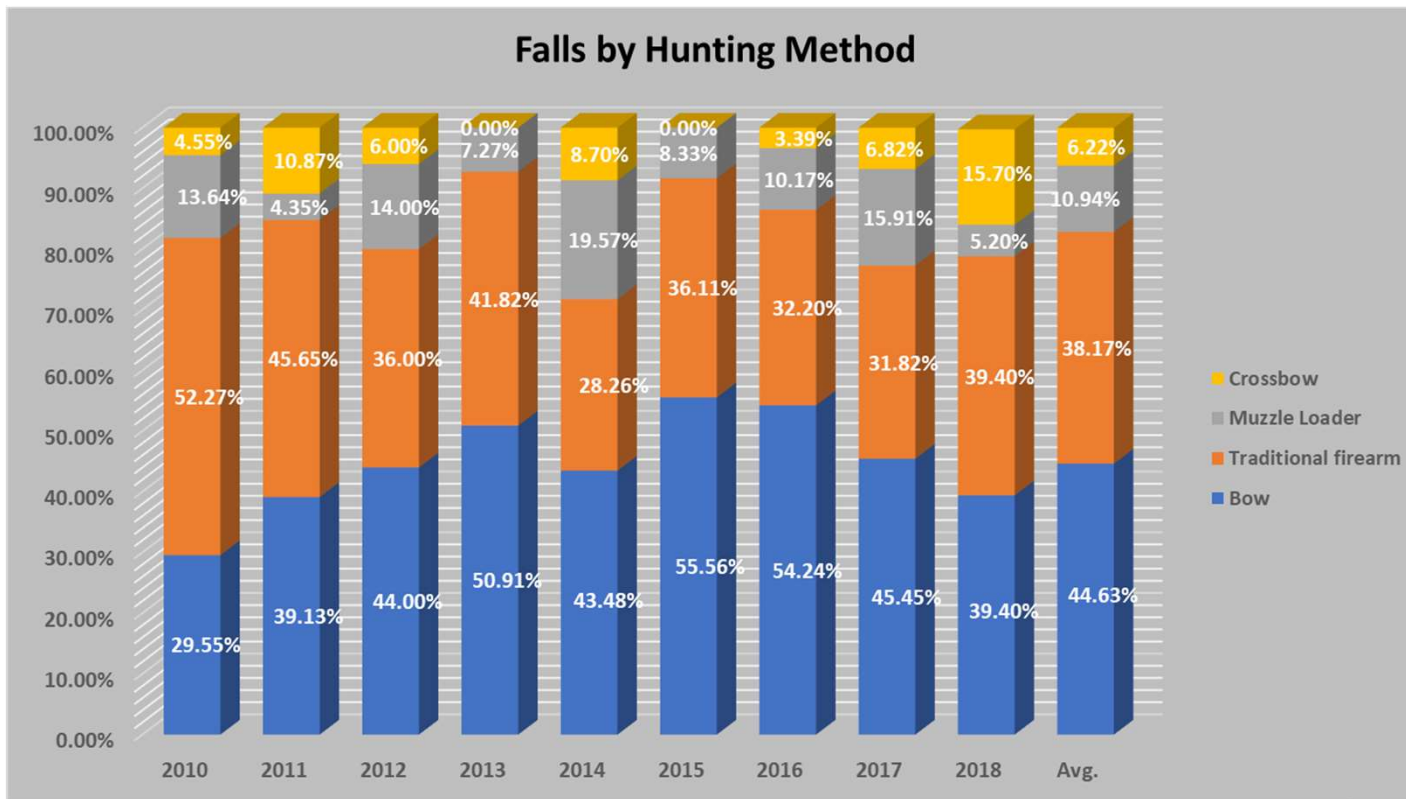
- 1
- 2
- 3

		2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Medical	1	1		2	1			1	1		6
Bottom Fell	2	1		2	1		2	3	1		10
Loss grip/balance/Slip	3	3	10	8	4	8	5	7	9	4	20
Stand Shift	4		4	5	3	1		1	1		15
stand break	5		2		1	3		4	2	2	14
sleep	6	2			2	3	1		2		10
strap break/loose	7	2	2	3	14	7	3	5	5	3	44
human error	9			2	3	2	5	3	3	5	23
limb break	10		1	1	1	2	3	3	2		13
chain/cable break	11				2	1	2	4	2	2	13
step/ladder failure	12				2	1	6	8	5	4	26
alcohol	13	1				2			1		4
other	14	1				1	1		1	1	5
Total		11	19	23	34	31	28	39	35	21	241

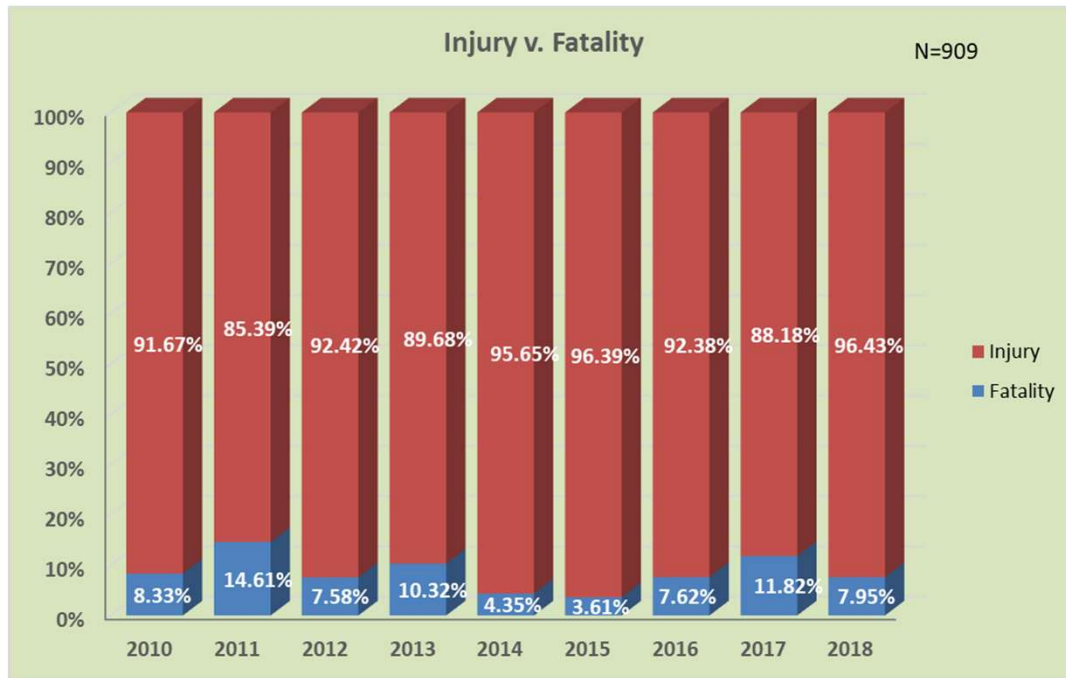
Top Causes

N=241

Hunting Method



Injury v. Fatality



	2010	2011	2012	2013	2014	2015	2016	2017	2018	Totals
<i>Injury</i>	13	24	42	36	30	35	57	36	23	296
<i>Fatality</i>	2	0	3	1	1	0	1	3	0	11
<i>total</i>	15	24	45	37	31	35	58	39	23	307
<i>% Fatality</i>	13.33%	0	6.66%	2.70%	3.22%	0.00%	1.72%	7.69%	0.00%	3.58%

Best Practices and Techniques



A B C BUILDING BLOCKS OF TREE STAND SAFETY

A ALWAYS REMOVE AND INSPECT ALL YOUR EQUIPMENT BEFORE USING

35% of falls involved inspection elements
Source: 10 State Multi-Year Study, Mathew, G. 2017

B BUCKLE YOUR HARNESS SECURELY

86% of fall victims didn't wear a harness
Source: 10 State Multi-Year Study, Mathew, G. 2017

C CONNECT BEFORE YOUR FEET LEAVE THE GROUND

99% of fall victims injured were not attached
Source: 10 State Multi-Year Study, Mathew, G. 2017



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Keep it Simple Education Infographic



TSSA
TREE STAND SAFETY AWARENESS
FOUNDATION

"Elevating treestand safety"

HANG ON Style



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TSSA
TREE STAND SAFETY AWARENESS
FOUNDATION

"Elevating treestand safety"

LADDER STAND Style



www.TreeStandSafetyAwareness.org



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Educational Best Practices



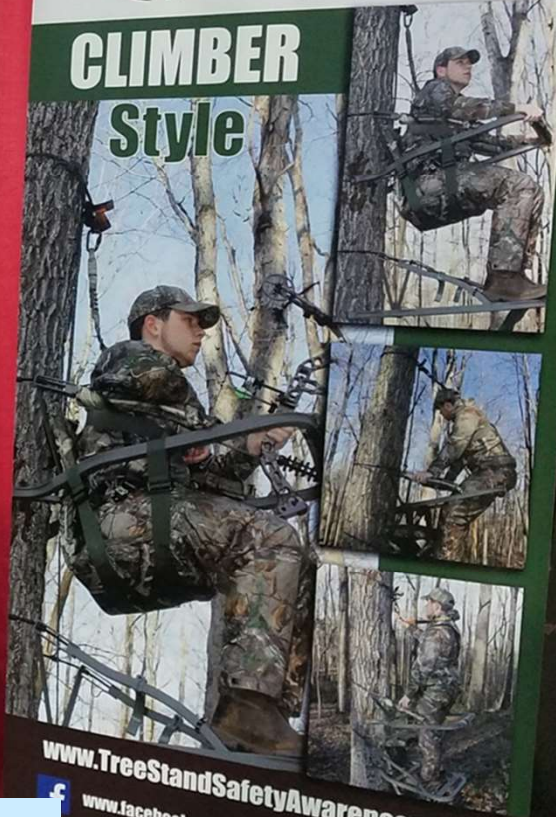
www.instagram.com/TreeStandSafetyAwareness



TSSA
TREE STAND SAFETY AWARENESS
FOUNDATION

"Elevating treestand safety"

CLIMBER Style



www.TreeStandSafetyAwareness.org



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Rope Safety Lines

Summit Tree
Stands



Hunter Safety
System



Millennium Tree
Stands



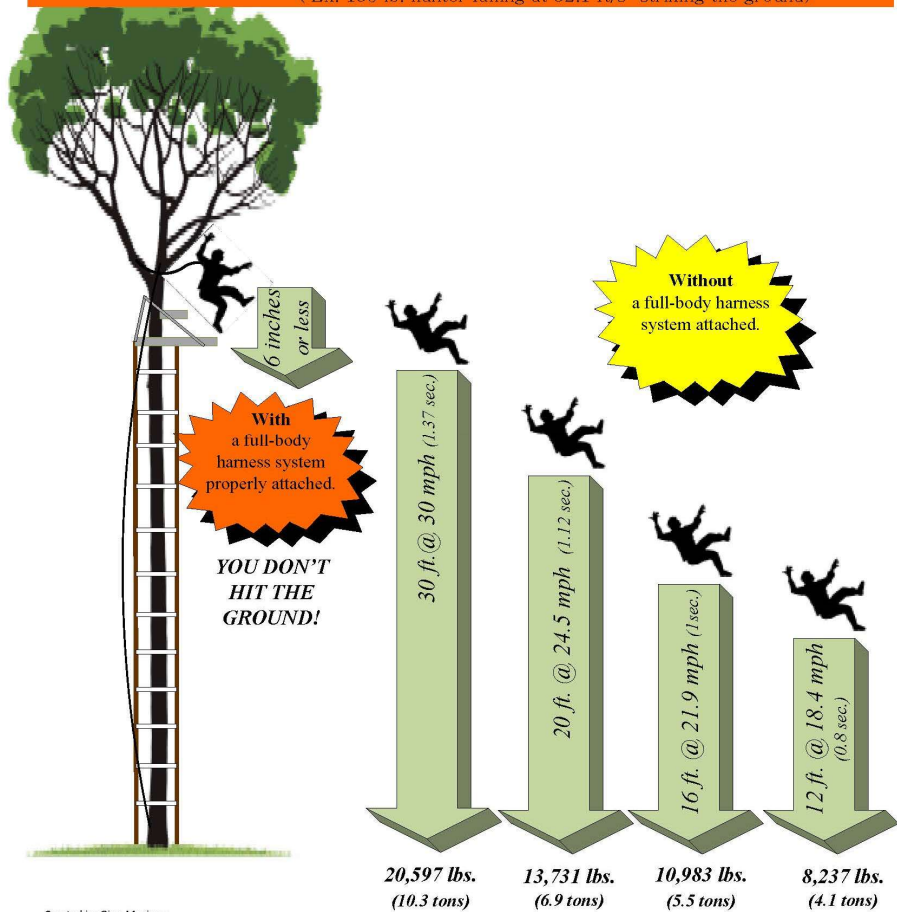
Muddy Tree
Stands



How Hard will you Hit the Ground?

You Choose . . .

(Ex. 180 lb. hunter falling at 32.1 ft/s² striking the ground)

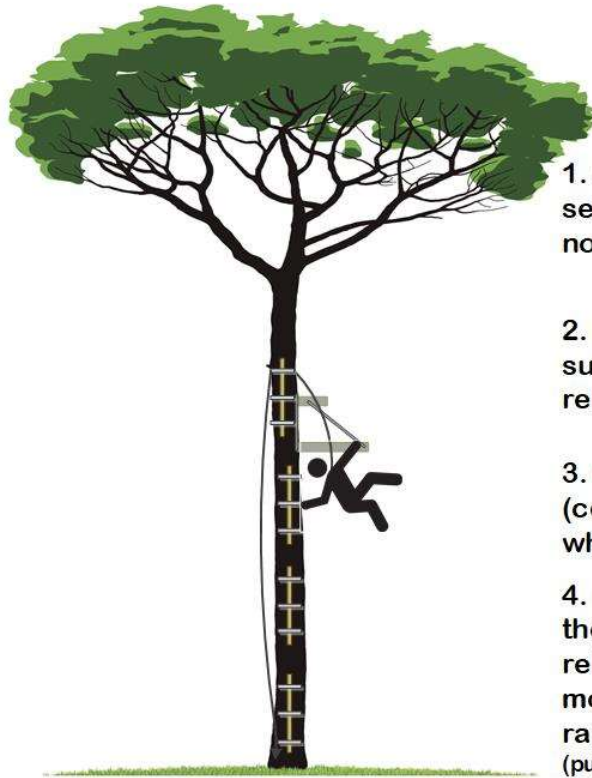


Created by Glen Mayhew

Connected 100% of the time.

Always use a full-body harness and a life-line or lineman's belt.

SUSPENDED: What to do....



Created by Glen Mayhew

1. Stay calm & self-rescue, if not...



2. Deploy/use suspension relief strap.



3. Call for help (cell phone, whistle, etc.).



4. If you can't use the suspension relief strap, keep moving and raising legs (push off tree if possible).



Connected 100% of the time.

Always use a full-body harness and either a life-line or lineman's belt.

Tree Stand Manufacturer's (TMA) Role

- ▶ January 1, 2016 TMA members' products are required to meet the current ASTM standards
- ▶ TMA Does NOT have Standards



- ▶ TMA Disclaimer
 - ▶ *Any product listed on this website indicates that the TMA has been provided with an **acknowledgement demonstrating that a representative production model has been tested by a third party testing firm and certified by that testing firm to meet or exceed industry standards recognized by TMA.** TMA is not involved in and thus not responsible for the design, quality control and/or safety of the product or end user. It is the responsibility of each end user to safely use the product as it was intended to be used and according to manufacturer's instructions.*

*Where are the
RESOURCES?*





ABOUT US



VIDEOS

Click on a link below to watch videos on treestand safety.

SAFETY TIPS

- [TSSA Harness Worn Inside or Outside Tips](#)
- [TSSA Stand Tips for Success](#)
- [TSSA Tree Stand Climbing Safety Part 1](#)
- [TSSA Tree Stand Climbing Safety Part 2](#)
- [Realtree ABC's of Tree Stand Safety](#)
- [Realtree Rope Safety Lines](#)
- [TSSA Only Bow Hunters Fall Myth](#)
- [TSSA Preseason Checks](#)
- [TSSA Ground Options](#)
- [TSSA Winter Safety Tips](#)
- [TSSA January Safety](#)
- [TSSA ABC's of Tree Stand Safety with David Blanton](#)
- [TSSA Full-Body Harnesses with David Blanton](#)
- [TSSA Climbing Stand Safety with David Blanton](#)
- [TSSA Tough Guy Discussion with David Blanton](#)
- [TSSA Ladder Stand Safety with David Blanton](#)
- [TSSA Haul Line Use with David Blanton](#)

PRODUCT SPOTLIGHTS

- [TSSA Product Spotlight: Bear Kuma 30](#)
- [TSSA Product Spotlight: Millennium M-100, Summit Pro Harness](#)
- [TSSA Product Spotlight: Hanger Harness, Sole Scraper, Stump](#)
- [TSSA Summit RSX Raptor Stand](#)
- [TSSA Product Spotlight: ATA 2018 Hunter Safety System](#)
- [TSSA Product Spotlight: ATA 2018 Summit Heated Seat](#)

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SUBSCRIPTIONS

- Hunter Safety System
- Elimishield Hunt
- Acts17Apologetics
- Auburn Tigers on AL...
- Primitive Pathways
- YETI
- DeerBuilder
- Show 7 more

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tree stand safety awareness

TSSA Tree Stand Safety
14 subscribers

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Uploads **PLAY ALL** SORT BY

 <p>TSSA Tip Harness Outside or Inside 4 views • 2 months ago</p>	 <p>TSSA Tree Stand Climbing Safety Part 2 23 views • 4 months ago</p>	 <p>TSSA Tree Stand Climbing Safety Part 1 27 views • 4 months ago</p>	 <p>TSSA Stand Tips for Hunting Success 16 views • 5 months ago</p>	 <p>TSSA Product Spotlight: Hunter-ed.com & HuntStand 5 views • 5 months ago</p>	 <p>TSSA Product Spotlight Bear Kuma 30 46 views • 5 months ago</p>
 <p>TSSA Product Spotlight: Hunter Safety Sytem Hybrid... 30 views • 1 year ago</p>	 <p>TSSA Product Spotlight: Hurricane Safety System... 154 views • 1 year ago</p>	 <p>TSSA Ladder Stand Safety with David Blanton 211 views • 1 year ago</p>	 <p>TSSA Ladder stand Haul lines with David Blanton 67 views • 1 year ago</p>	 <p>TSSA Tough Guy Discussion with David Blanton 82 views • 1 year ago</p>	 <p>TSSA Climbing Stand Safety with David Blanton 147 views • 1 year ago</p>
 <p>TSSA ABC's of Tree Stand Safety with David Blanton 292 views • 1 year ago</p>	 <p>TSSA Full Body Harnesses with David Blanton 44 views • 1 year ago</p>	 <p>TSSA, Hunter Safety System 2018 Pro Series Harness 319 views • 2 years ago</p>	 <p>TSSA Stand Removal Safety Tips 49 views • 2 years ago</p>	 <p>Tree Stand Safety Awareness Foundation 66 views • 2 years ago</p>	 <p>TSSA, 2018 ATA Show, Millennium Tree Stands 540 views • 2 years ago</p>

Let's Have Some FUN!



SAFE or NOT?



SAFE or NOT?



SAFE or NOT?



SAFE or NOT?



SAFE or NOT?



SAFE or NOT?



SAFE or NOT?



We do this so...

***Everyone Comes
Home SAFE!***





How Can We Help You?



Questions/Comments

► Contact Information

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YouTube Channel: Tree Stand Safety Awareness

