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Hiram, GA 30141-1048



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P.O. Box 1048
Hiram, GA 30141

Phone: 770/459-3791
Fax: 770/459-1365
E-mail
info@forestapps.com

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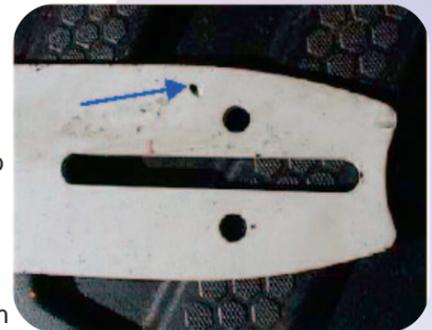
NEWS

Guide Bar Maintenance. From the Forest Applications eBook...

In Chapter 3, I discussed the general guide bar types-laminated sprocket nose, sprocket nose with a replaceable tip, and solid nose. Let's look at some of the routine maintenance you should perform to keep your guide bar functioning properly and increase its service life.

When performing routine maintenance on your guide bar, always make sure the engine is turned off, and wear gloves to protect your hands when removing the chain from the bar and from the sharp edges of the bar rails.

Your bar requires a constant supply of oil during operation. Do a daily check to make sure the oil hole in the bar is open and clear of any oiling sawdust build-up.



With use, the bar groove will become clogged with oily, wood chips and dust. With the chain turning at high speeds, the heat generated in the bar groove can cook this oil/wood mixture to a hard glaze. If left unchecked in the groove, the glaze can cause binding of the chain, increased wear, and reduced chain and bar life. You should take a small putty knife or a bar rail-cleaning tool and clean out the bar groove daily.

As the chain rides in and on top of the bar rail groove, wear will cause the bar rail edges to flare on the outside of the bar groove. Once each week or more frequently if your saw gets heavy use, you should use a flat file or a bar dressing tool to remove the sharp, flared edges from bar rails.



Guide bars with a grease hole in the tip area require periodic maintenance. Make sure the grease hole is clear of dirt and oily wood powder. Don't force dirt or oily wood dust into the sprocket area. Each time you re-fuel the saw, you should inject grease into the hole in the bar tip to assure the sprocket has sufficient lubrication.

If your bar is equipped with a sprocket tip, check the sprocket spur for signs of wear. If the spur teeth are pointed and sharp to the touch, it's time to replace the bar or the sprocket assembly.

Some bars come with a bar nose assembly that can be replaced when worn. Check the manufacturer's instructions that came with the bar on how to replace a worn nose assembly.

You should never use the guide bar as a lever to lift, twist or pry wood from the cut.

This can subject the bar to severe stress, which can result in bent or pinched rails. This creates a restriction for the chain and increases wear. With the chain tensioned properly on the bar, hold a straightedge against the bar body and against a cutter side plate. A good bar groove will hold the chain straight leaving a small gap between the straightedge and the bar body. A worn bar groove will let the chain lean until the straightedge is flush with the bar body. Make this check weekly and replace the bar if the groove is worn.



On sprocket-nose bars, do a weekly check of the clearance around the bar's tip between the top of the rail and the bottom of the chain's cutters or tie straps. There should be a clearance of approximately 1/32", and this clearance will decrease with wear. Replace the nose sprocket before the chain's cutters or tie straps contact the bar rails. CONTINUED...

Thank you...
Husqvarna, PFERD and Oregon
for your 2002 sponsorship of the
news!

Order your eBook on line @ www.forestapps.com

Forest Applications News

West Virginia

Beginning the last of October through November we will be back in West Virginia a good bit. We have been selected for the 2002-2003 LSI Program (Logger Safety Initiative). For more information on date's etc. contact the WV Forestry Association.

International Paper

I had the opportunity to do a little work training in an area I haven't been for a few years. Near Savannah, GA is a small town called Rincon. It is home of the IP research group for southern pine. We held a one-day training/demo for the area research foresters (about 15 of them) that use chain saws in their research work. It was a fun group and they all bore the heat of extreme South Georgia weather and were very attentive to the class material. Thanks to Aaron Burton for setting up the session.

NYSEG

On behalf of Husqvarna and Parkside Supply, Wilmington, NY we visited Plattsburg, New York to put on a day of training for the New York Electric and Gas Company.

David Comfort of NYSEG we had met earlier at the Tamarack training last quarter.

He told us of his workings with Steve Forbes of Parkside and asked if we could work with them on this year's program. So the event was planned with help of Matt Jarck of Husqvarna. It was a fun day with the group!



Boonville, NY

Demonstrations again this year at the Woodsmen's Day's...

Thanks again to Mark and Gary of CJ's Logging and Husqvarna for the opportunity. Rip Tompkins of ArborMaster and I presented to over 750 attendees of the show in presentations Friday through Sunday.



LTAP

Many city, county and state workers haven't heard of the LTAP programs across the country. It is federal granted program to offer training, related to road(s) work, to employees of government organizations.

I first began working with this program about seven years ago when Jeff Lee's of Husqvarna introduced me to Jeff Cathcart. Jeff C. is the organizer of LTAP programs in the state of Rhode Island. Through his promotion of our programs, other states have come on board. Massachusetts, West Virginia, Vermont, Connecticut, Georgia and Florida have scheduled programs. Thanks Jeff(s)!

Here are a few shots from a the GA programs - Cartersville, Jesup, Sandersville, Rockdale and Forsyth organized by Rick Smith and Dennis Rice of LTAP GA...



I have the great privilege of traveling along with my husband Tim and attending each of our chain saw training programs. Each class is as interesting as the first one I

LAURA'S CORNER

attended. I have this statement said many times to me...."I bet you could teach this class" Or I get asked, "Don't you get bored hearing the same thing over and over?" To the first statement, that is why Tim does not let me run a chain saw, he is afraid that I would take his job away from him. In addition, to the second statement, I don't find it boring to hear him speak repeatedly. He has a unique way of making the same teachings seem new for each class.

Our goal as we travel from state to state is to make all that use a chain saw aware that SAFETY is for a reason. Injury's continue although the numbers have dropped over the years. Tim always asks the class "What is an accident?" Tim's answer is "It is an unplanned event." Then he will ask the class "What is Safety?" Tim's answer "Awareness and Planning". I think most of us realize that for us to be safe we have to take precautions in almost everything we do. Tim then discusses the reasons for wearing a hardhat, ear protection, safety glasses, chaps, boots. When he ask the group if they had any of the above on while using a chain saw there are still to many that say no. It is either they have the equipment and don't use it or they don't have it available.

As a wife or a husband, we should think of encouraging our spouses who use a chain saw to wear PPE. When someone is injured it not only effects his or her work but the family is effected too. I know before I even knew of the dangers and injuries that could happen with a chain saw, my dad worked many times without the PPE. Now that I am aware, and my dad is aware, he does not run a chain saw without the PPE on. It will not work if it is not worn. If you don't have PPE available, talk to your supervisor or purchase it yourself. I am glad my husband understands the reasons for wearing PPE and cares enough not only for his own safety but also for everyone he meets.

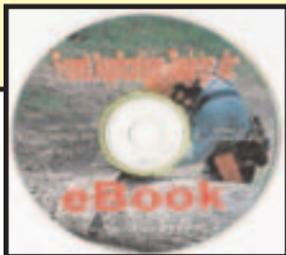
Sensible Woodcutting Videos are still available. Contact us via the website registration and we will send it to you no charge!
<http://www.forestapps.com>

Remember the reasons for Safety...

Laura



Find out more on our **NEW e-book...**
The Complete Guide to Chain Saw Safety & Directional Felling
 Visit our website at
www.forestapps.com



Cross-Sight

Up A Tree...

Is it important to know how tall a tree may be? If there are hazards and obstacles within its reach, it may well be! Now you can be a bit more confident in your planning process before felling a tree. The Cross-Sight from Forest Applications Training, offers you pocket size tree measurement. Folding to fit easily in your pocket, you can now have a tool at hand to quickly size up a tree.

You can read more about the Cross-Sight on our web at

<http://www.forestapps.com>.

The tool may be purchased from **our new eStore on the web** or from Sherrill, Inc. at 1-800-525-8873. The cost is \$12.00.





Oregon®

It was great to travel back out to Clackamas this August to work with some of the Oregon® Cutting Systems engineers, service and marketing personnel. George Ruggles, as always, did a fantastic job setting up and organizing the training session this year.

The class was two days of hands-on held at the experimental forest near Forest Grove, OR owned by Stimson Lumber. Mike Heath from Stimson always goes out of his way to help us with tree accommodations. We had some trees along a small ridge and road cut in.



Mike Heath

All the Oregon® crew did great but the marketing department took the first place slot. Brian Maher was consistent (and just flat-out good) with the saw to maintain the lead throughout the two days.

Forest Applications Training is proud to have Blount Inc. - Oregon® Cutting Systems sponsoring this newsletter and our training around the country. Thank You!

Forest Applications Training, Inc. is proud to have Oregon® as a National Sponsor of this News publication and our training programs across the country.

Visit the Oregon® website at <http://www.oregonchain.com>. You can find a lot of information on products, safety and general use of chain saws as well as purchase from their unique on-line dealer system. Let'em know where you heard about it... Tim

This page is an example of the great information found on the www.oregonchain.com site. These articles are direct from their site. Check it out!



The Oregon 2002 Crew!

Thanks Mike!



These guys know bars and chains!



Sneak peek....

I had the opportunity to see and do some carving with the new light-weight guide bar design from Oregon®.

Can you imagine, with as lightweight as saws have been getting in design, how one of the major contributors to the overall bulk weight you're lugging through the woods is the guidebar. Well, Oregon® has devised a way to reduce about 30%, one-third (+ -) of the weight of your guidebar.

I did some work on the scales with the 32" they let me try out. It was less than a half pound more than the 20" I normally used on the 372xp saw. Another foot of bar at almost the same weight. Usually if you mount a 32" bar on the saw, there would be a definite nose-dive in the saw's balance but with the new light-weight, it balanced like a 20". I can't weight for them to put the 20" bars on a diet,, I hope.

They have done endless research and testing to find just the right alloy to make these bar inserts. It has to be light, but it also had to expand, contract and absorb heat at the proper rate to maintain saw chain temps at the bar rail and stay attached in the bar during rigorous use.

I'm impressed! The greatest thing is less bulk weight, and the reduced fatigue possibilities this offers to the operator. I don't think anyone will complain that the saw they've been lugging around just lost a few pounds and kept the power.

You can see the bar in the photo to the left...



Clifton Forge, VA

The beautiful campus of Dabney Lancaster College in Clifton Forge was the setting again this year of the Allegheny Forest Management Group's - *Forestry Field Day*. Each year as part of the show, Forest Applications, with help from Husqvarna, Oregon® and PFERD, pays to the competition winners cash and prizes. The competitors have completed a four-day logger training program organized by Roger Timbrook of Mead Westvaco and the AFMG committee.

Fourteen loggers registered this year for the competition and the skills were keen. All of the guy's did a super job, but after two elimination's, it was down to Chad Humphries of Covington, VA taking home the first place \$1000 check. Chad went through the program two or three years back and works daily in the woods falling for Judd Smith Logging.

Other top winners:

Daryl Hamilton
Dennis Goodbar
DJ Dowdy
Johnny Lawson
Robert Gilbert



The Top Six...

L to R top to bottom -

Johnny Lawson, DJ Dowdy,
Daryl Hamilton, Robert
Gilbert, Dennis Goodbar,
Chad Humphries

Numero Uno - Chad Humphries of Covington



Duffield, VA

Labor Day Weekend in Duffield, Virginia is always a great place to be. The town, located on Hwy 23 in the hills between Kingsport, TN and Big Stone Gap, VA is the home of Duffield Daze.

Duffield Daze is filled with activity all weekend. A ten-mile run, huge parade, arts and crafts, old cars, and our annual Logger Competition.

The competition is a joint effort of the timber industry in the Tri-State area. Gilbert NS Lumber, Willamette Industries, BA Mullican Lumber and probably several others I'm missing. They all take part in organizing and setting up the wood, poles and judging for the Saturday competition. They also make the competition possible by continuing to organize participants for the four-day logger training program in the area. Thank you!

Don Honaker of Raven, VA achieved the first place title this year. The field of competition was tough this year. Competing was an almost even mixture of past training participants and new ones from this year's program. It's always great to see the new trainees come out and give it a try. And they did more than try... they did a super job!

The top four places:

Don Honaker
Charlie Gibson
Allen Keen
Lonnie Honaker



Don Honaker 2002 Champion

2002 Line-up:

**Scott Vanover,
Allen Keen,
Don Honaker,
Bobby Hillman,
Curtis Head,
Ryan Harris,
Roy Reese Sr.,
Garrick Hillman,
Charlie Gibson,
Lonnie Honaker,
Harold Gibson.**



2002 Trainees



This Old House

By Tim Ard

Thanks to Husqvarna I had the opportunity to return to the works of Russ Morash. Russ is the producer of "Victory Gardens" and "This Old House" television shows on your public broadcasting stations.

In 1995 I had the opportunity to be part of a "Victory Garden's" segment on chain saw safety and felling techniques. The re-runs are still being shown occasionally. This new opportunity however, is with "This Old House".

The new format of the show beginning this Fall will be called the "This Old House Hour". The first half-hour will be with Steve and Norm as always but the second half will focus on answering questions from the field. Questions sent to them from the website or the "This Old House" magazine. They will be filming some of the answers from their shop set and others they will be doing on location.

One of the questions they wanted to answer was regarding "how to sharpen your chain saw". Right up my alley, so through Husqvarna's network I was slated again for the task.

I took part in the video shoot with TOH star Roger Cook. We discuss how to re-claim some damaged saw chain to cutting status. It's only about three and a half minutes of the show to be aired the week of November 17th on your local PBS stations, but it's another opportunity to get chain saw applications training out to those using saws in the field. Thanks for the opportunity *This Old House* and Husqvarna. A special thanks also to Chris Dick of TOH for organizing and planning my involvement.

Have you tried one or all of the products we show in the News? Husqvarna Saws, Oregon Chain and Bars, PFERD Files, PFERD Chain Sharp/SharpForce, See Clear?

Send us a note and let us know what you think!

E-mail us at info@forestapps.com



Clearing Continued...

By Tim Ard

In the past couple issues we've discussed-

Set up of the brush cutter - clearing saw to the operator.

How the many attachments can be used?

Now, one important area for production and safety is understanding and using the rotational forces of the attachment. The rotating direction of the cutting head or blade is an important part of the operators understanding of the machine and its safe use for productivity.

A line trimmer with a direct drive, or drive shaft attached direct to the rotating engine, will most likely have a clockwise head rotation. Most brush or clearing saw units will have a counter-clockwise head or blade rotation because the gear head on the lower shaft end reverses the rotation as the gears are turned.

Brush guards or blade limit-stops will have openings positioned to the left side of the rotating head or blade on these units. This allows access to the pulling rotation of the attachment. The operator uses the rotation of the attachment to obtain falling direction of the sapling or the discharge of the mowed grass or weed material.

One area for the operator to be cautious of is the **upper right 45** degrees of the blade or cutting head.

This area may cause a kick-out of the attachment causing loss of control by the operator. This area of the circular attachment is similar to the kickback area of a chain saw. The other three

Husqvarna

Tough Name. Tough Equipment.™

blade quadrants however, are very useful in directing the lower stem of a sapling, aiding in direction or placement of the cut stem.

Lower right - cutting with this area of the blade moves the bottom of the stem forward and to the right causing the top of the stem to be placed to the left rear of the operator.

Upper left - this area of the blade, along with movement of the operator's body, will place the stem to the right rear of the operator.

Lower left - this area, with a pulling action of the operator, will place the stem to the right front of the operator.

With a little practice, coordinating the blade areas with the body movements, the operator can make directional placement of the debris or severed stem a valued technique. Patterns can be established to reduce the amount of time the operator must walk over or move debris to maneuver.



**Husqvarna
Clearing / Brush Saws**

Tim's Time

Tim Ard's Schedule

Check the Website for up-to-date schedule listings

Itinerary: Tim Ard As of 6 October, 2002

October 2002

1-11	New England States
1-2	Two-day LTAP training - Pottersville, RI
3	One Day make up training - Yarmouth, MA
4	Demo LTAP - Narragansett, RI
8-9	CT Carreer Day's - Wallingford, CT -Husqvarna
10-11	Two-day Training - Easton, CT
15-17	Sunbelt Expo - Moultrie, GA - Husqvarna
18	LTAP Demo - Macon, GA
21	LTAP Demo - Tifton, GA
29-31	West Virginia Logger Training - Refresher's

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We've released a new version...

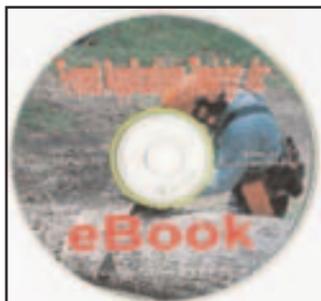
The Forest Applications Training, Inc. eBook is selling well. We are quite happy with its progress. The Standard versions are still available from the Forest Applications Training eStore at www.forestapps.com.

The National Arborist Association (NAA) will begin marketing a version for arborists offering four (4) CEU's of ISA credits for the **Certified Arborist's** continued education requirements.

This NAA version Forest Applications Training, Inc. eBook is available from the NAA online library at www.natlarb.org. The new version is printable and has study hyperlink's and a printable quiz that when returned to NAA is worth four ISA credits. The eBook is a great tool for *Tailgate Safety Sessions* with your Tree Care crew. When completed, the employee can take the quiz and receive the continuing education credits.

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PFERD

PFERD

By Tim Ard

I am still amazed in training and demonstrations when I ask the groups if they ever have seen or used the PFERD ChainSharp tool. The past few weeks with all the LTAP sessions I quizzed over 400 folks and only found a handful that had. Whether the ChainSharp or the Husqvarna SharpForce version, the ones who have used the tool absolutely love it. They say the tools work great and are

very pleased with them. Everyone else asks where he or she can purchase it.

I've found another super advantage of the tool's design. When you are dressing up a chain that may have seen a little abrasion (rock or pavement) it is important to reshape the tooth, resetting the angles and removing the damage to get it to cut again. Often, I see filer's or grinder's that try to take off too much in the radius of the cutter without first removing the damage and reshaping the top plate.

If you try to remove damage with a grinder, you will sometimes overheat and cause the tooth to become impossible to sharpen with a file again and usually doesn't hold an edge any longer. In this situation use a flat file to remove the damage then put the chain on the grinder. Even if you use a hand held round file, it's very easy

PFERD

We are amazed at the continued interest in the PFERD Chain Sharp (Husqvarna SharpForce) tool. Everywhere I go people are asking where to buy it and more details as to how to use the tool. - Tim

to hook the chain when filing away the damage. I think this happens because the file is forced down under the top plate by the bent chrome edge. If you use a flat file first, taking off the damage, you can then resurface the cutting edges with the round file and get great results.

With the PFERD tool, you can tilt the guide back just a bit and remove the damage and reshape the tooth with the side (middle radius) of the round file in the guide. Then once the tooth is damage free and angles reshaped, lower the guide against the top plate and the cutting surfaces will be formed and sharpened. It work's super! One thing too - when you file the tooth back, try to keep the teeth all symmetrical but, if you get off a little free-handing; with the PFERD tool, the raker (depth gauge) is set in accordance to the tooth point height. Everything continues to cut straight and great!

Give it a try! Send us e-mail at info@forestapps.com with your questions and we'll forward them to the right place if we can't answer. The tool is available from all PFERD Dealers and Husqvarna Dealers nationwide. Get yours soon!

... order your ChainSharp PFERD sharpening tool. How? Call PFERD 1-800-342-9015

PFERD's ChainSharp



Congratulation's

Mike Bolin of the University of Illinois - past training organizer, co-author of the Forest Applications Training eBook, and a good friend is retiring from over thirty years of service to the University of Illinois and the Forest Industry. Mike has been instrumental in making the forest a better place in Illinois and surrounding states with his hard work. He was amazing as Editor of the Illinois Steward Magazine, the organizer of the Tri-state Forestry Conferences, the liaison for Illinois Pro Logger Program, the organizer of National Four-H programs and his work as a University of Illinois Collegiate Football Official.

Mike's plans are to retire to the Fresno, California area with his wife Medsie. They both enjoy the mountain ridges there, where they have vacationed for years.

They'll (we all will) miss you around Illinois Mike - but, good luck and congratulations on your much-deserved time off!



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