



The Logger



VOLUME 21, ISSUE 2

FALL 2021



Maryland / Delaware



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“Logger” - What’s in a Name?

By: Jeff Jenkins, Appalachian Region Consultant, Forest Resources Association
This article originally appeared online at Forest Resources Association's website on 9/17/2021.

When I moved to Ohio, I started my career as a forester with high expectations, not much experience, and zero understanding of what I was getting into. Well, that’s not totally true. I had a degree in forestry, knew most of the tree species, passed forest entomology and silviculture, and spent six weeks at spring camp wandering around trying to get the feeling of what a day in the life of a “working” forester would be like. I knew most of the basics that every other graduate would need before beginning the journey that some call life or others call it, “a promising career!” I had never met or worked with a real life logger! You know who I’m talking about. They are the small businessmen (and women) that our multi-billion dollar industry depends on to cut and haul the raw material for every product we use, from toilet paper to toothpicks! Our industry exists, and has thrived, because of loggers. Every logger I have met has an endless work ethic, a strong faith in God, commitment to provide for their families, and an optimistic outlook! They leave early in the morning and return home when the last log is



strapped to the truck! They are the “lifeblood” and “backbone” of our industry!

I have worked with many loggers. Those individuals either “wake up with the chickens” or before that. They arrive on the job in the dark and watch the first load move off the landing by the crack of dawn! They invest small fortunes in equipment, and that investment can exceed the value of their home. The weather isn’t always sunny and mild. Many months of the year,

gray skies and cold, wet conditions prevail. Regardless of what mother nature throws their way, loggers are in the woods and, literally, pushing out the next load!

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Back in 1988, those “Loads of Logs” were important to a couple of loggers and a few forest industry leaders. They started a nationwide giving campaign recognized today as “Log a Load for Kids.” The loggers and wood-supplying businesses would donate the value of a load of logs, or any amount of money, to a nearby Children’s Miracle Network (CMN) hospital, and their donations would be used for treating ill or injured children. Historically, over \$2,000,000 is raised annually for the CMN and over \$46 million since 1992. The generosity and discrete acts of kindness are in the “DNA” of many loggers. Helping others is second nature, and “loving your neighbor” is how many loggers begin the day.



FRA provides an award to show appreciation to a logger, contractor, or supplier, which is the Regional Logger of the Year award. This is an opportunity for forest products companies, state associations, private landowners, or others to recognize a logger who is a leader in the woods, our industry, or your community. On occasion, FRA struggles to get nominations within our six regions, and when that happens, we are failing to “seize the moment.” We are all concerned that loggers are retiring, and logging capacity is on the decline. Being prepared and giving some thought to your Regional Logger of the Year may be all it takes to keep a good logger from leaving a business that previous generations of his family have all enjoyed! Placing a reminder in the day-planner or electronic calendar on January 1, 2022, will help begin the process to nominate a logger. Your FRA regional representative can answer questions or assist you with crafting that nomination. By the way, all regional winners automatically move on to compete for our National Logger of the Year!

“Logger”- What’s in a name? I would say, “everything our industry depends on.”

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Woodland Wildlife Wednesday

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November 17th, 12 - 1 PM

Forest Health Update- Pests and Diseases

Presented by:

Heather Harmon Disque, Forest Health Entomologist,
Maryland Dept. of Agriculture, Forest Pest Management

Earn 1 MD-DE Master Logger CEC for attending!

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Did you know that Maryland loggers do a good job of caring for the woods?



Meet Bruce Barnes, 2020 Appalachian Logger of the Year and owner of Barnes Logging in Clements, MD

A citizen steward and logger for over 40 years, Bruce Barnes of St. Mary's County has spent a lot of time in the forest. Like many loggers, he grew up in the woods. The 2nd generation logger started running a dozer to build landings, roads, and trails in the forest the summer between 4th and 5th grades. He continued working with his father learning how to properly fell trees and use horses to skid them out. Despite his decades in the field, he still savors every moment he has, walking the woods of Maryland and taking it all in. He continues to cut every tree he harvests by hand with a Stihl chainsaw but appreciates the increase in production he's seen over the years with other mechanized and technologically advanced equipment. Early on, he learned that taking care of the land, people, and equipment are all equally important parts of his job.

Mr. Barnes is an active MD-DE Master Logger. Working closely with landowners and Maryland Forest Service staff, he walks each and every property with owners to listen and learn their forest harvest objectives while noting every detail of tree species, soil types, and wet, water-logged areas. Barnes adheres to OSHA's harvesting and safety standards and takes pride in sharing his chainsaw safety knowledge, especially with the new generation of loggers.

He started his own logging business immediately after high school, and Barnes' lifelong endeavor has only grown since then, with exports to Europe and Asia the last 15 years. It is a family business. His wife Kathy has handled the bookkeeping, scheduling, and payroll for the past 37 years. He acknowledges her as his "most valuable partner in the profession." His son-in-law occasionally helps as a truck driver and/or skidder operator. Export markets have been a challenge with the recent ban on Methyl Bromide at the Port of Baltimore.

Barnes is still hands-on in the field, whether it's building all the roads, log decks, and skid trails on all timber sale sites or his masterful select cuts. He follows all the Sustainable Forestry guidelines and forest management plans, knowing to harvest the trees in a responsible, sustainable way to further improve the renewable, regenerative resource that is timber. One of the tools of the trade, a bulldozer, is always kept on-site in case Bruce needs to deal with any issues that come up during harvest. Bruce says 'logging has come a long way in Maryland in the past 20 years. "BMPs are a good thing, and need to be followed and are being followed for sediment and erosion control." He is diligent and determined always to do a good job. As he puts it, "one bad job can ruin your reputation and cost you future jobs."

Meeting landowner needs is of utmost importance to Barnes in his work, and he will see each harvest through to the end, working with landowners to use the leftover wood from a site to create brush piles for wildlife habitat or build burn piles or cut firewood. Woody biomass markets are something Southern Maryland could use more of to help better utilize wood.



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Coordinating with foresters, Barnes ensures all county permits are handled correctly and leaves forest buffers where needed, as well as selectively cutting trees that foresters flag for removal. He has his Maryland Erosion and Sediment Control specifications for Forestry Harvest Operations, also known as the Forestry Green Card, and a Maryland's Forest Products Operator's License. Barnes knows the ins and outs of the Forest Conservation & Management Program and is always happy to explain details to landowners and refer them to their local forester. If Bruce had a wish list, a "more streamlined and uniform permitting process across all counties" would be at the top of the list.

One of the most enjoyable parts of Barnes' work is how each landowner is unique in their goals and objectives, and each forest stand is unique in its own way. He often tells property owners to let the trees grow more, adding diameter and establishing an even more productive harvest site.

With such good work, Barnes has been recognized in multiple ways over the years. In 2007, he was awarded the Director's Commendation for eradication efforts regarding the emerald ash borer, which has been causing mass mortality among ash trees across 30+ states. During the eradication work in Maryland, 5 independent loggers were brought in to remove ash in areas of infestation. Ash grows in environmentally sensitive areas such as non-tidal wetlands with very wet soils. These areas were Barnes' challenge to tackle, and the lifetime logger did just that. He rented a specialized KMC Koo-track machine after doing a lot of his own research and was able to access these more challenging sites and remove the ash.

Beyond his work in the field, Barnes is an active community member and has been a St. Mary's Fair Board member for 11 years. The fair's wood carving demonstrations use Barnes' own logs, which he donates every year, and the carver's creation is auctioned off to raise money for the fair. The fair also gives him a chance to get back to his roots as he enjoys participating in horse-pulling competitions.

Bruce has been highlighted in the MD-DE Master Logger newsletter, *The Logger*, and was also featured by the Harry Hughes Center for Agro-Ecology in a video about sustainable timber harvesting and forest health. He even went so far as to help the video filming crew find a suitable location for shooting.

Most recently, all the decades of his fine work were acknowledged in 2020, when Barnes received the Maryland Logger of the Year and the Appalachian Logger of The Year, a regional recognition by the Forest Resource Association. Bruce knows that the work he does is called Timber Stand Improvement for a reason. It's helping the forest along. As he puts it, "after opening the canopy up, it doesn't take long to see the seeds begin to sprout that had been lying dormant on the forest floor once the sunshine can filter through." With loggers like Barnes on the frontlines of forest management and timber harvesting, our woodlands and natural resources have an ally and great steward to rely on time and time again.



Bruce Barnes pictured with Consulting Forester John Houser and MFA Executive Director Beth Hill on a logging job in Southern Maryland.

Photo Credit: EDWIN REMSBERG PHOTOGRAPHS

Project Support: RURAL MARYLAND COUNCIL

Article Credit: Maryland Forests Association, Faces of Forestry

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JOHN S. AYTON STATE TREE NURSERY MARYLAND DEPARTMENT OF NATURAL RESOURCES

John S. Ayton State Tree Nursery Now Open

How to Order: The online tree seedling catalog is now open and accepting orders for spring 2022 planting at nursery.dnr.maryland.gov

This year's catalog features more than 50 species, with a few different choices from last year! Our seedling crop is growing very well and we have more than 2.5 million seedlings available.

If you are not sure which species are right for your needs, please call your local forestry office. They can answer questions about site conditions, species selection, and financial incentives for which you may qualify.

Payment: We accept all major credit cards. You will receive a confirmation email when your order is placed. Credit cards will not be charged until the seedlings are shipped in the spring.

We continue to provide UPS seedling delivery to your door. UPS shipping fees will be included in your order total. Your order will ship in March or April depending on your shipping address. You also have the option of picking up your seedlings at the nursery.

Please feel free to contact seedlingsales.dnr@maryland.gov with any questions.



Instructions for Accessing Online WVU Online Credits

By: Taylor Robinson, MD-DE Master Logger Program



The MD-DE Master Logger Program has partnered with West Virginia University to offer online Continuing Education Credits for the recorded Mid-Atlantic Logger Training Series. Please follow the instructions to create an account and enroll. Note: Once created, this account will allow you to self-enroll in any of the “open” courses on the site.

Step 9: Upon completion of the videos- you will receive a certificate of completion via email. Be sure to submit the certificate to Taylor at taylormr@umd.edu. Please call Taylor with any questions at 443-446-4267. If you have any technical difficulties with the WVU site or don't receive a certificate, contact Ben Spong at ben.spong@mail.wvu.edu.

Step 1: Go to <https://extensioncommunity.wvu.edu/>

Step 2: Scroll down and select the category “Forestry and Wildlife Continuing Education”. A list of courses will drop down. Select “Logger Training Series”.

Step 3: You will need to create an account with the WVU Extension Service Online Community.

Step 4: Please fill out the online registration form to create your account.

Step 5: A confirmation will be sent your email upon submitting the form. Click the link in the email.

Step 6: The link will take you to a webpage, click “continue”

Step 7: By clicking “Enroll me”, you will be automatically taken to the Mid-Atlantic Logger Training Series.

Step 8: Be sure to read the instructions and select the MD-DE Master Logger Program. You are all set to start earning your credits!



Check this out!

Glad to see our MD-DE Master Logger hats are getting some good use!

Chris has been a MD-DE Master Logger for eight years. He got his MD-DE Master Logger hat signed by Bobby Goodson. Bobby is the owner of Goodson's All Terrain Logging and one of the stars of the reality show swamp loggers. He met Bobby at the VA Logging expo years ago.

Thank you for sharing this piece of Logger memorabilia. If you want a MD-DE Master Logger hat, please contact us at 443-446-4267. Maybe one day it will be signed by you as a piece of Logger memorabilia!

Safety Pays

When it comes to dissecting the most dangerous jobs in America, the logging industry certainly has a seat at the table in any discussion.



For police officers or firefighters, for example, the exposure to injury is well known and comes with the profession. The hazards of the logging industry are also well known but are maybe a bit less conspicuous in the day-to-day routine. But the end result of an injury in the logging profession can be undoubtedly severe.

Added to the challenge, loggers often work in rural locations. Access to emergency services can be several minutes away. As a way to render emergency treatment as soon as possible, Minnesota loggers are required to maintain training in first aid and Cardiopulmonary Resuscitation (CPR). Such training can prove invaluable until an injured logger can be transported to a medical facility.

There are five key areas to consider when trying to prevent logging injuries.

Those areas are:

1. Falling objects.
2. Struck-by objects.
3. Slips/trips/falls on site.
4. Caught-in-between.
5. Motor-vehicle accidents.

Falling objects: Loggers get paid to harvest timber. To meet that end, trees need to fall. Objects like logs and limbs are not only heavy but most often fall from heights which increases the chances of severe injuries. Site meetings to discuss the plans for the day and safety precautions to be taken care of prove invaluable to heightening employee awareness to potential falling hazards.

Struck-by objects: Though chainsaws have become somewhat dinosaurs on site in Minnesota logging, they are still a valuable tool in the field. Kickbacks and whiplash from the stored energy of bent or bound tree limbs holds huge potential for injuries.

Slips/Trips/Falls: Minnesota weather plays a heavy hand when it comes to slips/trips/falls on a logging site. Winter snow and ice increase the chances of suddenly slipping, sometimes even when being careful. In addition, climbing on and off equipment and navigating the ground full of ruts and tree limbs on the log deck itself both pose potential pitfalls.

Caught-in-between: It is easy for worker limbs, most-notably hands and feet, to be caught between logs and equipment. And again, the weight and energy of what those limbs are caught between is unforgiving.

Motor-vehicle accidents: Many loggers in Minnesota have their own fleet of pick-up trucks, which haul both employees and fuel to the jobsite. In addition, many employers also have wood-hauling trucks that take the finished product to the mills. All the variables of driving large, heavy loads come into play, including other drivers and weather when it comes to logging-vehicle accidents.

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The question then is how do companies fight back? What can a company do to prevent such exposure to injuries often with tragic outcomes? There are a few suggestions which will help fight back.

1. Have a company safety program with some safe operating procedures (SOPs) that are expected to be learned and followed by employees and enforced by the employer. There is an old saying that "if you condone it, you own it." Rules that are not followed by employees and enforced by employers most times will end up leading to behavior that results in injuries.
2. Clearly define employee work areas. Loggers need to know where they should be and maybe more importantly, should not be when cutting activities are occurring.
3. Implement a daily plan. Have a discussion with the crew and outline what the goals are for that day, while talking about how to do it safely.
4. Conduct jobsite safety inspections. Such inspections do not need to last for hours but do need to be purposeful. The thought is to identify hazards or problem areas and come up with solutions for abatement.

5. Provide the necessary personal protective equipment and make sure employees wear it. Steel-toed boots, gloves, eyewear, hardhats, and high-visibility vests should all be required.

Consider a fleet-safety program. It should include training drivers on safety policies and procedures including driving strategies, techniques, and defensive driving. Having a plan for vehicle inspections, repair and maintenance is a must too. All drivers should be screened annually for a valid driver's license



Written by: John A. Saccoman, MIS, Loss Control Consultant, Mackinaw Administrators, LLC.

Reviewed by: Tim O'Hara
FRA Vice-President of Government Affairs, &
Manager, Lake States Region

For more information and similar articles visit:

<https://www.forestresources.org/>

We at the MD-DE Master Logger program are sad to hear the news of Mrs. Ann Glotfelty.

She played an integral role in the success of Glofelty Lumber Co. Inc. She was committed to her Logging family as well as her community and the Log a load program which has raised over \$1 million for the WVU Medicine Children's Hospital.

We will remember her loving, welcoming spirit and will miss her smile and good cheer.

Sending prayers of peace and comfort to Butch, Eric and the Glotfelty family.

MARYLAND

WHO IS THE PRIMARY DECISION-MAKER?

64 YEARS (AVERAGE AGE)

51% COLLEGE DEGREE

74% MALE

6% MINORITY



PAST 5 YEARS Forest Management Activities

CUT TREES FOR SALE 7%

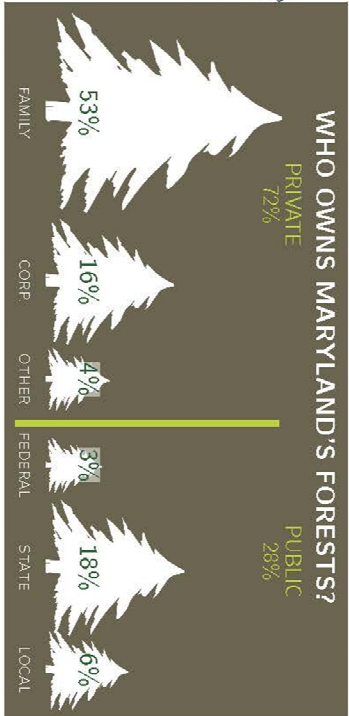
CUT TREES FOR OWN USE 31%

INSECT/DISEASE MITIGATION 6%

INVASIVE PLANT MITIGATION 19%

IMPROVED WILDLIFE HABITAT 23%

REDUCED FIRE HAZARD 11%

PROGRAM PARTICIPATION

Management plan 37%

Property tax program 32%

Management advice 23%

Conservation easements 14%

Cost-share programs 4%

Green certification 1%

TOP 5 CONCERNS

Property taxes

Keeping land intact

Insects or diseases

Government regulation

Development

BY THE NUMBERS

Maryland's Family Forest Ownerships

1,055,000 ACRES

25,000 OWNERSHIPS

52,000 OWNERS

MEAN SIZE 42 acres

Median = 20 acres



TOP 5 REASONS FOR OWNING

Beauty or scenery

Wildlife habitat

Privacy

Nature protection

Water protection



MARYLAND

TABLE 1. Forest Ownership

OWNER GROUP	ACRES	SE
Family	1,289,000	63,000
Corporate	361,000	43,000
Other private	96,000	23,000
Federal	74,000	21,000
State	445,000	35,000
Local	159,000	29,000

TABLE 2. Totals, family forest (10+ ac)

UNITS	TOTAL	SE
Acres	1,055,000	42,000
Ownerships	25,000	2,000
Owners	52,000	3,000

TABLE 3. Demographics family forest (10+ ac)

DEMOGRAPHIC	ACRES	SE	OWNER-SHIPS	SE
Age (65+)	49.2	4	41.9	4.9
Education (College)	51.9	4.3	50.6	5.6
Gender (Male)	73.4	2.7	74.4	4
Minority	3.1	1	3.7	2.9

TABLE 4. Size of forest holdings, family forest (10+ ac)

SIZE OF HOLDINGS	ACRES	SE	OWNER-SHIPS	SE
10-49 (ACRES)	35.7	3.3	77.2	6.1
50-99	22.8	2.5	14.3	1.9
100-499	30.5	3	8	1
500-999	6.7	1.3	<1	<1
1,000+	4.4	<1	<1	<1

Mean size = 41.9 ac (SE = 2.6); Median size = 20 acres

TABLE 5. Reasons for owning, family forest (10+ ac)

OBJECTIVE	ACRES	SE	OWNER-SHIPS	SE
Beauty or scenery	77.8	4.1	78.9	5.7
Wildlife habitat	79	4.1	76	6.1
Privacy	70.4	4.1	75.4	6.1
Nature protection	73.5	4.2	74.5	6.2
Water protection	67.7	4.1	68.6	6.2
Family legacy	69.4	3.8	63.8	5.6
Raise family	46.4	3.7	53.3	5.3
Hunting	54.5	3.7	46.7	5.3
Recreation	47.6	3.7	42.9	5.3
Land investment	50.2	3.7	42.8	5.4
Firewood	25.6	2.8	29.1	4.2
Timber products	31.7	3.2	17.9	3
Non-timber products	4.7	1.3	3.3	1.1

Data in this report come primarily from the USDA Forest Service, National Woodland Owner Survey (NWOS). The NWOS is implemented by the Forest Inventory and Analysis program to answer questions related to who owns the forests, why they own it, what they have done with it in the past, and what they plan to do in the future. The survey was conducted in Maryland in 2017 and 2018. A sample of 166 family forest ownerships from Maryland who participated in the NWOS in 2017 and 2018. The sampling errors provided below are important for assessing the reliability of the estimates. Additional results from the NWOS are available in USFS General Technical Report NRS-329 and can be accessed via the NWOS Dashboard and additional documentation and resources can be found on the NWOS website.

TABLE 6. Concerns, family forest (10+ ac)

CONCERN	ACRES	SE	OWNER-SHIPS	SE
Property taxes	81.5	3.9	83.1	5.3
Keeping land intact	79.7	4	77.9	5.3
Insects or diseases	69.1	4	74.2	5.9
Government regulation	70.7	3.9	71	5.8
Development	60.5	4	70.7	5.6
Vandalism	75.4	4	70.5	5.3
Trampling	78	4	69	4.8
Water pollution	57.9	3.9	68	5.7
Invasive plants	54	3.9	56.9	5.6
Wildfire	58.5	4.2	56.8	5.5
Drought	45.5	3.6	48.8	5.5
Air pollution	44.1	3.7	48.7	5.2
Wind or ice storms	45.9	3.7	46.5	5.6
Climate change	44.5	3.7	46	5.3
Off-road vehicles	38.4	3.2	39.1	4.6
Animal damage	26.9	3	24.1	4.5

TABLE 7. Management activities, family forest (10+ ac)

ACTIVITY	ACRES	SE	OWNER-SHIPS	SE
Controlled burn	1.9	<1	1.6	<1
Cut trees - own use	30.3	2.7	31.5	4.3
Cut trees - sale	17.3	2.3	7.3	1.8
Insects management	5	1.4	6.4	2.4
Invasives	18.1	2.7	19.3	4.1
Livestock grazing	4.7	1.4	5.2	2.4
Non-timber products	12.2	2	10.9	2.7
Reduce fire hazard	9.1	1.9	11.2	3.3
Roads	15.5	2	8.2	2.2
Trails	28.1	2.6	21.4	3.7
Wildlife habitat	26	2.5	22.8	3.6
None	30.4	2.9	37.3	4.6

TABLE 8. Management programs, family forest (10+ ac)

PROGRAM	ACRES	SE	OWNER-SHIPS	SE
Controlled burn	1.9	<1	1.6	<1
Cut trees - own use	30.3	2.7	31.5	4.3
Cut trees - sale	17.3	2.3	7.3	1.8
Insects management	5	1.4	6.4	2.4
Invasives	18.1	2.7	19.3	4.1
Livestock grazing	4.7	1.4	5.2	2.4
Non-timber products	12.2	2	10.9	2.7
Reduce fire hazard	9.1	1.9	11.2	3.3
Roads	15.5	2	8.2	2.2
Trails	28.1	2.6	21.4	3.7
Wildlife habitat	26	2.5	22.8	3.6
None	30.4	2.9	37.3	4.6

DELAWARE


WHO IS THE PRIMARY DECISION-MAKER?

64 YEARS (AVERAGE AGE)

44% COLLEGE DEGREE

81% MALE

3% MINORITY



PAST 5 YEARS Forest Management Activities

7% CUT TREES FOR SALE

29% CUT TREES FOR OWN USE

14% INSECT/DISEASE MITIGATION

11% INVASIVE PLANT MITIGATION

31% IMPROVED WILDLIFE HABITAT

9% REDUCED FIRE HAZARD




PROGRAM PARTICIPATION

Conservation easements **22%**

Management advice **13%**

Management plan **11%**

Property tax program **8%**

Cost-share programs **4%**

Green certification **1%**

TOP 5 CONCERNS

Keeping land intact

Trespassing or poaching

Dumping or vandalism

Property taxes

Government regulation

BY THE NUMBERS
Delaware's Family Forest Ownerships

162,000 ACRES

4,000 OWNERSHIPS

10,000 OWNERS

MEAN SIZE 45 acres
Median = 22 acres



TOP 5 REASONS FOR OWNING

Wildlife habitat

Beauty or scenery

Privacy

Nature protection

Family legacy



DELAWARE

Data in this report were provided by the USDA Forest Service, National Woodland Owner Survey (NWOCS). The NWOCS is implemented by the Forest Inventory and Analysis program to answer questions related to who owns the forests, why they own it, what they have done with it in the past, and what they intend to do with it in the future. The family forest ownership results are based on random sample of 136 family forest ownerships from Delaware who participated in the NWOCS in 2017 and 2018. The sampling errors provided below are important for assessing the reliability of the estimates. Additional results from the NWOCS are available in USFS General Technical Report NRS-109 and can be accessed via the NWOCS Dashboard and additional documentation and resources can be found on the NWOCS website.

TABLE 1. Forest Ownership

OWNER GROUP	ACRES	SE
Family	198,000	16,000
Corporate	68,000	13,000
Other private	16,000	7,200
Federal	8,000	5,200
State	62,000	7,200
Local	7,000	5,200

TABLE 2. Totals, family forest (10+ ac)

UNITS	TOTAL	SE
Acres	162,000	6,200
Ownerships	4,000	<1
Owners	10,000	1,200

TABLE 3. Demographics, family forest (10+ ac)

DEMOGRAPHIC	ACRES	SE	OWNER SHIPS	SE
Age (65+)	53.6	4.4	50.6	3.8
Educator (College)	4.6	4.5	44.3	3.9
Gender (Male)	84.3	2.4	80.6	3.9
Minority	3	1.2	2.6	1.2

TABLE 4. Size of forest holdings, family forest (10+ ac)

SIZE OF HOLDINGS (ACRES)	ACRES	SE	OWNER SHIPS	SE
10-49	33.3	3.4	75.3	6.6
50-99	22.5	2.7	15.4	2.5
100-499	32.8	3.2	8.7	1.1
500-999	7.7	1.3	<1	<1
1,000+	3.7	<1	<1	<1

Mean size = 44.6 ac (SE = 3.1). Median size = 22 acres

TABLE 5. Reasons for owning, family forest (10+ ac)

OBJECTIVE	ACRES	SE	OWNER SHIPS	SE
Wildlife habitat	51.4	4.1	79.9	6.4
Beauty or scenery	73.2	4.2	77.4	6
Privacy	61.3	4.1	72.8	6.5
Nature protection	79.1	4.1	71.8	6.5
Family legacy	68.1	4.1	71.3	6.3
Water protection	6.8	4.6	65.5	6.8
Raise family	39.3	3.8	59.2	6
Hunting	39.3	4	55.1	6
Recreation	4.5	4.1	49.7	6.5
Land investment	32.9	3.8	46.6	3.8
Firewood	1.5	2.5	25.7	4.9
Timber products	33.4	3.6	2.5	4.4
Non-timber products	3.6	1.3	4.7	2.3

TABLE 6. Concerns, family forest (10+ ac)

CONCERN	ACRES	SE	OWNER SHIPS	SE
Keep'r land intact	61.9	4.2	85.3	6.2
Trespassing	82.9	4.9	80.6	6.2
Vandalism	79.1	3.8	77.5	5.8
Property taxes	74.4	4	73.4	6.2
Government regulation	77.7	4.1	72.3	6.2
Development	55.1	4.3	64.5	6.9
Insects or diseases	65.8	4.1	60.7	6.1
Water pollution	49.5	4	56.5	6.1
Wildfire	51.6	3.9	54.2	6.5
Invasive plants	49.8	3.8	49.7	6
Air pollution	42.2	3.8	49.5	5.9
Drought	36.8	3.7	43.2	5.7
Wild or ice storms	37.5	3.8	39	5.7
Climate change	33.7	3.6	37.3	5.3
Off-road vehicles	28.6	3.1	37.3	5.4
Animal damage	27.6	3	32.6	5.4

TABLE 7. Management activities, family forest (10+ ac)

ACTIVITY	ACRES	SE	OWNER SHIPS	SE
Controlled burn	1.6	<1	<1	1.6
Cut trees - own use	20.5	2.5	29	4.6
Cut trees - sale	2.1	2.2	6.6	2.3
Insects management	9.9	1.7	14.5	4
Invasives	11.4	1.7	10.6	3.3
Livestock grazing	2.7	1.3	5.5	3
Non-timber products	5.3	1.1	8.8	3.5
Reduced fire hazard	8.4	1.8	9.1	3.6
Recreation	11.7	1.7	11.6	3.5
Trails	35.9	2.8	25.6	4.4
Wildlife habitat	33.2	2.9	31	4.3
None	32.2	3	37.8	5.2

TABLE 8. Management programs, family forest (10+ ac)

PROGRAM	ACRES	SE	OWNER SHIPS	SE
Advice	27.9	2.7	13.5	2.5
Conservation easements	26.8	2.7	21.9	4.2
Green certification	2.0	<1	<1	<1
Management plan	27.6	2.7	10.6	2.4
Property tax program	14.3	2.1	7.9	2.2

Reminder:

Does your MD-DE Master Logger status expire on December 31, 2021?

Did you receive a letter in September reminding you?

If so, there are still many ways to get continuing education credits. You can watch a logger/forestry related video/webinar, write an article for this newsletter or an editorial for your local newspaper, or invite us to a logging job to get credit. There are many more activities, so please see the list below or check out the MD-DE Master Logger website.

If you have questions about the number of credits you still need to get please contact Taylor at (443) 446-4267 or taylormr@umd.edu.

MD-DE Master Logger Continuing Education Credit Opportunities	Number of Credit hours
Mid-Atlantic Logger Training Series Join us the 4 th Tuesday of each month Earn 1 credit for each monthly webinar . To register https://go.umd.edu/loggerseries	1/ea
Woodland Wildlife Wednesday Webinar Join us the 4 th Wednesday of each month. Earn 1 credit for each monthly webinar. To register: https://go.umd.edu/woodlandwildlife	1/ea
Natural Areas Management Manual and Checklist with quiz Call or email Taylor to have the materials sent to you.	4
Forestry Aesthetics publication with quiz Call or email Taylor to have the materials sent to you.	2
Various CEC safety and forest management videos Find it on our website: https://go.umd.edu/loggercec Check out what has been recently added:	<ul style="list-style-type: none"> -Deer Management Stewardship Course -Best Management Practices Video Series -EPA's Forestry Best Management Practices in Watersheds -An OSHA Safety Training Video
Virginia SHARP Logger Programs http://sharpllogger.vt.edu/	varied
Webinars hosted by Penn State University https://go.umd.edu/pa-forest-webinars	varied
Pennsylvania State Professional Timber Harvesting Essentials— http://sfiofpa.blogspot.com/	varied
West Virginia BMP Recertification course http://www.wvforestry.com/	8
Master Logger Steering Committee Member	4/year
4-H or FFA or Envirothon forestry volunteer	varied
Service as a member in any forestry or natural resource organization such as local Forestry Board	2/year
Write an article for the MD-DE Master Logger Newsletter: <i>The Logger</i> , or invite us to a logging job so we can feature you in the <i>The Logger</i> .	2
Host an approved Timber Harvesting Tour or education event	4/year
Other logger and forestry related educational events you have attended	varied
Read a forestry related book. Then, write a short review, summary, or recommendation. You will earn 2 credits for this and an additional credit if we use your review in our newsletter or on Facebook.	2/3



MD/DE Master Logger Program

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***THE LOGGER** is the official publication of the MD-DE Master Logger Program, Master Logger Steering Committee (MLSC), and the Maryland SFISIC.*

MD-DE Master Logger Word Search

F Q Z I H A M F I R S T A I D J U G H L
G S P O F K E S J N T V K G S F C S W W
M U P Y F K V R I E V O F Y P A M T J E
X A Q E C O N S E R V A T I O N F T T E
D Q N B C K S W H W V A V A O U B E W K
B Q B A O I S M R B E Q N Y P F K C T Y
G N D K G U E I T X B X I M L L N M X Y
P T R K B E G S L E P Q L O Q E R O X C
Q U N Q F P M L J V S G U I N D Y G Y J
K U J Z E M W E P W I M G H Q Z N T H S
U O Y L S Q I M N L I C H F I Z W J M C
B H G J P L F N Q T S Y U A G S W H X N
M E O O B S I O Q A U R P L K D Q O W H
H X K M Z Z N I V D N W A V T W A R K A
M P X D S M O L P B S P W S N U N A S R
O L A N D O W N E R D Y P U A K R N N V
D V B I J R R G C S W L N C Z D G E J E
W S U S T A I N A B L E D K D S Y C J S
K B R X J H S C U J Q Z X L C R J L D T
A H A B I T A T B D S A M Q Z Z I O L N

Word List

Silviculture
Landowner
Habitat
Sustainable
Harvest
Conservation
Management
Species
Safety
First Aid