Report on the
Status of Logger Training and Education (LT&E) Programs
in 32 Forested U.S. States & Four Canadian Provinces

2021 Actuals – 2022 Estimates

Compiled by

FRA
Forest Resources
A S S O C I A T I O N

August 29, 2022

FOREWORD

This *Report on the Status of Logger Training and Education (LT&E) Programs in 32 Forested U.S. States & Four Canadian Provinces* was compiled from updates submitted by LT&E Program Coordinators.

Each state logger training program report is included in alphabetical order beginning on page 6.

A Training Summary Table on page 4 reports the number of persons attending continuing education courses in 2021 and expected to attend continuing education courses in 2022. A total of 5,158 loggers and others completed LT&E programs and 19,036 attended at least 1 training session in 2021.

On page 5, you will find a table that summarizes the number of logging contractors, logging employees, and others that participated in LT&E programs in 2021. Although some programs do not track the job classification of trainees, the programs that do track it report that 1,954 logging contractors, 1,475 logging employees, and 266 non-loggers completed their LT&E Program requirements in 2021. Others participating in LT&E Programs include foresters, landowners, consultants, students, government officials and natural resource managers.

Most LT&E Programs now require continuing education to fulfill licensing or to maintain certification status. For more information about each training program, please contact the person(s) listed at the top of each LT&E report.

Claire Gedde
Forest Resources Association

TABLE OF CONTENTS

LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING SUMMARY
(2021 ACTUALS – 2022 ESTIMATES)

State/Province	Actual # completing entire LT&E program in 2021	Actual # completing part of LT&E program in 2021	Estimated # to complete entire LT&E program in 2022	Estimated # to complete part of LT&E program in 2022
Alabama	96	1400	100	1400
Arkansas	104	1221	100	1250
Northern California	0	17	30	135
California	787	787	797	797
Central Rockies	91	91	80	80
Florida (1)	407	20	450	24
Georgia	125	859	125	626
Idaho	460	523	480	530
Kentucky	144	849	125	605
Louisiana	118	849	118	849
Maine (2)	555	0	440	
Maryland/Delaware	10	131	30	50
Michigan	58	749	65	760
Minnesota	416	846	425	880
Missouri	66	496	100	500
Mississippi	93	1345	620	500
Montana	157	1020	160	1030
New Hampshire	21	336	25	250
New York	117	577	125	500
North Carolina (3)	72	1338	97	1445
Ohio	36	600	55	657
Oregon	580	600	580	600
Pennsylvania	76	512	90	500
Quebec				
South Carolina	133	0	80	1050
Tennessee	65	360	45	350
Texas	56	494	85	635
Vermont				
Virginia	135	801	100	1000
Washington	37	109	45	80
West Virginia	182	813	90	870
Western Canada	744	0	1025	0
Wisconsin	27	1789	30	1500
Totals	**5902**	**19036**	**6617**	**19953**

LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING SUMMARY
(2021 ACTUALS)

State/Province	Actual Number Completing Entire LT&E Program in 2021				Actual Number Completing Part of LT&E Program in 2021			
	Logging Contractors	Logging Employees	Other	Total	Logging Contractors	Logging Employees	Other	Total
Alabama*	N/A	N/A	N/A	96	N/A	N/A	N/A	1400
Arkansas	43	63	18	104	488	619	122	1221
Northern California*	N/A	N/A	N/A	0	6	11	0	17
California	157	630	N/A	787	157	630	N/A	787
Central Rockies*	N/A	N/A	N/A	91	N/A	N/A	N/A	91
Florida (1)	366	N/A	41	407	18	N/A	2	20
Georgia	47	39	39	125	204	389	266	859
Idaho*	N/A	N/A	N/A	460	N/A	N/A	N/A	523
Kentucky (2)	130	0	14	144	814	0	35	849
Louisiana	18	13	28	118	379	198	272	849
Maine (3)	67	490	48	555	N/A	N/A	N/A	N/A
Maryland/Delaware*	N/A	N/A	N/A	10	N/A	N/A	N/A	131
Michigan*	N/A	N/A	N/A	58	N/A	N/A	N/A	749
Minnesota	325	72	19	416	346	471	29	846
Mississippi*	N/A	N/A	N/A	93	N/A	N/A	N/A	1345
Montana	116	41	0	157	1020	N/A	N/A	1020
New Hampshire*	N/A	N/A	N/A	21	N/A	N/A	N/A	336
New York*	N/A	N/A	N/A	117	N/A	N/A	N/A	577
North Carolina (4)	45	22	5	72	975	315	48	1338
Ohio	20	36	0	56	147	225	375	600
Oregon	580	N/A	N/A	593	600	N/A	N/A	600
Pennsylvania	23	16	37	76	283	109	120	512
Quebec								
South Carolina*	N/A	N/A	N/A	133	N/A	N/A	N/A	0
Tennessee*	N/A	N/A	N/A	65	N/A	N/A	N/A	360
Texas	0	42	14	56	0	450	44	494
Vermont	0	0	0	0	0	0	0	0
Virginia*	N/A	N/A	N/A	135	N/A	N/A	N/A	801
Washington	12	14	11	37	38	34	37	109
West Virginia*	N/A	N/A	N/A	182	N/A	N/A	N/A	813
Western Canada	723	N/A	21	744	1000	N/A	25	1025
Wisconsin*	N/A	N/A	N/A	27	N/A	N/A	N/A	1789
Totals	**2677**	**1475**	**287**	**5982**	**6425**	**3391**	**1351**	**20429**

1   Partial totals correspond to two-day master logger program
2   Logging contractors and employees the same category
3   Partial totals correspond to recertification
4   Partial totals correspond to continuing education module
*   No job classification provided

ALABAMA
Logger Training and Education Summary

Contact: **Ashley Smith**
Alabama SFI
555 Alabama Street
Montgomery, AL 36104-4395
Phone: (334)-614-5048
Fax: (334) 262-1258
Email: asmith@alaforestry.org

Joel Moon
Alabama Loggers Council
555 Alabama Street
Montgomery, AL 36104-4395
Phone: (334) 481-2133
Fax: (334) 262-1258
Email: jmoon@alaforestry.org

Program
Name: **Alabama Professional Logging Manager**
The Alabama Professional Logging Manager (PLM) Course, patterned after the Tennessee Master Logger program, began in 1993. Originally incepted by the Alabama Cooperative Extension Service/Auburn University, the Alabama Forestry Association now maintains and manages Alabama PLM for the Alabama SFI State Implementation Committee. The Alabama SFI State Implementation Committee contracts with Alabama Cooperative Extension System/Auburn University College of Forestry and Wildlife Sciences to teach modules of the Initial PLM training program, which consists of eight hours of classroom training.

Participants who complete the program receive an identification card. A database of current PLM designees is available on the Alabama Forestry Association website at www.alaforestry.org/plm. The database provides landowners and mills the opportunity to utilize loggers with formal training.

Required
Courses: The specific course work consists of these sessions:

Forest Resource Conservation – Beginning with the Sustainable Forestry Initiative (SFI), day one presentations cover endangered species, conservation of biodiversity, forest productivity through forest management, Best Management Practices for water quality protection, and timber harvest planning from economic and environmental perspectives.

Logging Safety and Compliance – With a focus on Logging Safety and Compliance, presentations include: logging safety management, specific job and task safety

procedures, the OSHA logging standard, logging business compliance, logging business information, and emerging technologies.

Other: A TVA grant to Auburn University/Alabama Cooperative Extension System initially funded the Professional Logging Manager Course.

The $125.00 pre-registration fee ($150.00 walk-in fee) covers costs of travel, materials, meals, etc. associated with hosting the course.

The Alabama Loggers Council and the Alabama SFI Logger Education Committee requires five hours of continuing education credits per year to maintain active PLM status. Participants can extend five hours of continuing education to the following year through additional training. Continuing education opportunities include traditional training workshops, safety programs, and online continuing education.

Training Summary:

Participants	Active PLM current cardholders	Actual Number Completing Initial PLM Training in 2021	Estimated Number Attending At Least One Course in 2021**	Est. Number Expected to Complete Initial PLM Training 2022	Estimated Number Expected to Attend Some Courses in 2022**
Loggers, Foresters And Others	1374	96	1400	100	1400
TOTALS	1374	96	1400	100	1400

1374 individuals met continuing education requirements & renewed PLM status for their 2022 PLM card, as of 03/14/2022; this number constantly changes as expired cardholders renew
**based on active and expired PLM account holders

Production Data: Approximately 95% of wood delivered in Alabama is delivered by PLM trained loggers.

Training Records Location: The entire database of current PLM designees is available on the Alabama Forestry Association website at www.alaforestry.org/plm. This database provides landowners the opportunity to utilize a logger who has had formal training.

ARKANSAS
Logger Training and Education Summary

Contact:	**Arnold Hameister**
	Director of Logger Training and Education
	Arkansas Timber Producers Association
	2311 Biscayne Drive, Suite 206
	Little Rock, Arkansas 72227
	Phone: (501) 764-2958
	Email: arnoldatpa@gmail.com
	Website: www.arkloggers.com

Program
Name:

Arkansas Logger Education and Training Program

The purpose of the Arkansas LT&E Program is to present four one-day educational workshops for Arkansas and neighboring state logging contractors, spouses, crew members, and company and state foresters. The Program's mission is to develop and implement an education and training program for Arkansas loggers, procurement and land management foresters, and others who work with loggers and logging contractors. It is designed to provide instruction that will assist in achieving sustainable forestry and best management (stewardship) practices.

The Arkansas Logger Training and Education Council was formed to develop a training curriculum, hire a program coordinator, and secure funding for Arkansas' Logger Training and Education Program. On September 1, 1995, George Lease was hired as Director of Logger Training and Education for the ATPA and retired August 31 2019. Arnold Hameister joined the ATPA as Director of Logger Training September 1, 2019. A training goal was established to train 1,000 loggers, spouses, and company employees each year in 1996, 1997, and 1998, for a total of 3,000 persons. There are currently 15,409 persons in the LT&E database. As of December 31, 2021, attendance at ATPA workshops has been 55,841 in 1,396 workshops held since the program started on October 1, 1995.

A training program budget and a funding formula have been established in the form of a 1 cent per ton voluntary assessment based on the volume of wood consumed by each company that elects to support the program. Also, there is a 1 cent per acre voluntary assessment for major forest landowners who do not have mills in Arkansas. 28 companies contributed $187,766.75 in 2021. In 2021 we held 19 in-person workshops with attendance of 714. We also developed an on-line ARK PRO Logger training video which was placed on the ATPA web-page. We had a total of 507 loggers/foresters register for the training for a total attendance of 1,221. Twenty-four in-person workshops have been planned for Arkansas, Oklahoma, and Texas in 2022.

Required
Courses:

The 24-hour basic curriculum includes four modules of six hours each:
- Timber Harvesting & Transportation Safety
- Business Management for Logging Contractors
- Successful Timber Harvesting (Best Management Practices)
- Environmental Considerations for Sustainable Forest Management

Continuing Logger Education (CLE)—All LT&E workshops now count for 6 hours of CLE annually. Ninety percent of the 2019 workshop attendance was by logging contractors, crew chiefs, and foresters needing CLE credit. Each Ark Pro Logger is expected to complete 6 hours of CLE annually.

Additional Training Available:

Defensive Truck Driving & Truck Driving Safety	Logger Rescue
Basic First Aid and CPR	Mill/Supplier (FRA) Workshops
Chainsaw Safety	CSA Compliance/Trucking Safety
Pipeline Safety	Truckers Against Trafficking
New-On line Logger Safety training video	

Coming in 2022 a new on-line Business Management module. This is provided by a partnership between the ATPA and University of Arkansas Monticello (UAM)

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending at Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	23	488	40	500
Logging Employees	63	619	40	650
Other (Foresters)*	18	122	20	100
TOTALS	104	1,221	100	1250

Records do not indicate job classification

Production Data: Based on comments from those 28 companies which funded our LT&E program, we estimate the Ark Pro Loggers (LCs and LT&E grads) accounted for over 95 percent of the State of Arkansas' timber harvest.

On-Line Courses: 1 on-line course is offered at this time; which we give CLE credit to loggers and foresters. We also give credit for taking online training from neighboring states, primarily Texas and Alabama. Credit is given for on-line courses taken in other states.

Training Records Location: Logger Training record is available online at www.arkloggers.com under Graduates. Additional information should be directed to Arnold Hameister (501) 764-2958.

NORTHERN CALIFORNIA

Logger Training and Education Summary

Contact: Mark Lathrop, Director

Loggers Association of Northern California (LANC)

P.O. Box 296

Mount Shasta, California 96067

Email: lancmarkl@gmail.com

Program Name: LANC Qualified Logging Professional (QLP) Program

Required Courses:

The LANC QLP program requires a company to complete twenty (20) credit hours of approved training courses, which cover all the (11) SFI Logging Education Categories (LECs). After initial certification, a company must complete at least eight (8) credit hours of continuing education of subject matter in any combination of the eleven (11) Logging Education Categories. All employees for the company must be trained and/or retrained in First Aid / CPR.

In 2021, the Sierra Cascade Logging Conference was moved to late May because of the Corona Virus. The California SIC gave LANC permission to extend the 2020 certificate holders training certificates through 2021. We only had a minimal # of classes during the May Conference.

Additional Training:

California Timber Operators License Program

The California Department of Forestry offers the Logger Training Program, required for first time applicants for a State Timber Operators License. The LANC program recognizes and gives education credit for this two (2) day course. There are many presentations and classes at the two California logging conferences for which LANC offers credit. Some of these are presented by Associated California Loggers and some by the Loggers Association of Northern California. First Aid CPR classes are offered separately.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in **2021**	Actual Number Attending At Least One Course in **2021**	Estimated Number Expected to Complete LT&E Program in **2022**	Estimated Number Expected to Attend Some Courses in **2022**
Logging Contractors Logging Employees Other	0	6 11	28-30	135
TOTALS	0	17	28-30	135

Production Data: No current plans to track.

Program Funding:

Funded by loggers and their association. First aid/CPR training is offered to company

employees at no charge to the company (current LANC members) and is paid for by LANC.

Training Modules:

LANC has one on-line training course, a two (2) credit hour course –

"Introduction to Forest Certification".

Training Records

Location: Mark Lathrop lancmarkl@gmail.com (530) 926-0771

CALIFORNIA
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Eric Carleson, Executive Director
Associated California Loggers (ACL)
555 Capitol Mall, Suite 460
Sacramento, California 95814
Email: ecarleson@calog.com
Phone: 916/441-7940, Fax: 916/441-7942

**Program
Name:** **California Logger Training and Education Program**
ProLogger training in California provides a continuing education resource for loggers and complements landowner certification programs. Completion of 17 required units and three elective units qualifies for ProLogger listing. Eight elective units per year are required to maintain ProLogger status.

**Required
Courses:**

Best Operating Practices
1) Silviculture for California loggers
2) Using best operating practices
3) The pre-harvest inspection as a short cut to quality
4) Matching job & equipment

Business Practices
1) Costs, job analysis and successful bidding
2) Independent contractor status
3) Managing your business to survive and prosper

Safety and Risk Management
1) Managing risks and claims
2) First Aid & CPR training
3) Hearing conservation

4) Hazardous substance rules
5) Updating your Illness & Injury Prevention Program
6) Nutrition

**Additional
Training
Available:** California Timber Operators License Program
The California Department of Forestry offers the Logger Training Program required for first time applicants for a State Timber Operators License. The program consists of the Licensed Timber Operator's Workshop developed cooperatively by the California Department of Forestry and Fire Protection (CDF) and the Associated California Loggers. The workshop is taught by the CDF.

Safety and First Aid - Informal safety visits and technical support. ACL's safety director works on a continuous basis with loggers and their workers' compensation program to keep their safety effort up to snuff.

Others (Electives) offered by ACL, Logging Conferences, etc., (continuing education credit awarded by ACL) include the following topics:

Working around Water	Labor Law
Troubleshooting Airbrakes	Safety (Trucks and Logging)
First Aid	Terminal Inspections
Trucking Issues	Trucking and Homeland Security
Private Property	Healthy Forests
Communication	Managing Insurance Claims
Air Quality Requirements	Fire Prevention
Heat Illnesses	Money Management

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	157	157	162	162
Logging Employees	630	630	635	635
1. Other				
TOTALS	787	787	797	797

Production Data: No current plans to track.

Program Funding:
Participants either pay directly for classes or association and logging conferences charge conference registration fees for all classes and the conferences themselves. Some conference classes are offered for free. No state funding.

Training Modules:
              (No online training modules were developed or offered through 2021)

Training Records Posted or Available At: (Please include the website link or e-mail contact where SFI members or program participants can access the training records of participants.)
Can contact the following to obtain information on credits:
              ecarleson@calog.com, jpardee@calog.com, or kprice@calog.com

CENTRAL ROCKIES
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Ben Wudtke
               Intermountain Forest Association
               2218 Jackson Blvd, Suite 10
               Rapid City, SD 57702
               605-341-0875, 605-341-8651 (fax), 303-506-8938 (cell)
               bwudtke@hills.net

Program
Name: **Central Rockies Sustainable Forestry Education Program (CRSFEP)**
               The purpose of the Central Rockies Sustainable Forestry Education Program
               (CRSFEP) is to develop, support and provide a course curriculum to improve
               knowledge and implementation of forestry practices in Colorado, Wyoming and
               South Dakota. The CRSFEP curriculum is designed for loggers, landowners,
               natural resource managers, and other interested parties. The intent is to encourage
               a mix of participants and facilitate discussion between those responsible for the
               management of forest land. The following core curriculum provides a foundation
               of both forest function and forestry operations.

Required
Courses (Black Hills):

Course	Classroom/Lecture/Discussion
Bark Beetles and other insects	1 hour
Special Considerations for Private Lands	1 hour
GPS Technology	1.5 hours
Understanding NF Timber Recommendations	.75 hour
Principles of Sawtimber Harvest	1 hour
Cretaceous Forestry	.75 hour
First Aid (as required by OSHA) (acquired locally)	6.0 hours
Total	**12 hours**

Colorado

Course	Classroom/Lecture/Discussion
Fire Response	1 hour
Best Management Practices	1 hour
Equipment Demonstrations	1 hour
Colorado Tree Insect and Diseases	.75 hour
Adaptive Management Guidance and Science	.75 hour
Preventative Maintenance	1 hour
Considerations for Steep Slope Logging	.75 hours
BBER Research	.75 hour
Understanding Rocky Mountain Restoration Initiative	.75 hour
First Aid (as required by OSHA) (acquired locally)	6.0 hours
Total	**13.75 hours**

Training Summary:

2. Participants	Actual Number Completing Entire LT&E Program in **2021**	Actual Number Attending At Least One Course in **2021**	Estimated Number Expected to Complete LT&E Program in **2022**	Estimated Number Expected to Attend Some Courses in **2022**
Logging Contractors Logging Employees	41 – Colorado 50 – Black Hills 91 – Total	41 – Colorado 50 – Back Hills 91 – Total	80 – Total	80 – Total
TOTALS*	91	91	80	80

Records do not indicate job classification.
Production Data: No current plans to track.

Program Funding: In general, participant fees pay the costs, although various timber associations (IFA, BHFRA, CTIA) cover a portion of the administrative/organizing costs.

Training Modules:
(No online training modules were developed or offered in 2021.)

Training Records Posted or Available At: Training records housed at the Intermountain Forest Association in Rapid City. Contact person is Jamie Turnbow or Ben Wudtke.

FLORIDA
Logger Training and Education Summary

Contact: **Brittany Varn**
                Director of Forestry and Regulatory Affairs
                Florida Forestry Association
                402 East Jefferson St.
                Tallahassee, FL 32301
                Phone: (850) 222-5646
                Cell: (850) 524-4577
                Email: Brittany@FLForestry.org

Program Name:
Florida Master Logger
The Florida Forestry Association administers the program for the Florida Sustainable Forestry Initiative (SFI) State Implementation Committee (SIC). The program is designed to enhance the professionalism of loggers through training in safety, timber harvesting, business, and environmental regulations.

Required Courses:
Environmental Module: FL BMPs, Water Management Silviculture Rules, FL Wildlife BMPs, Managing Invasive Plant Species and Endangered Species
Business Management: Wage and Hour, Commercial Vehicle Enforcement, and Emerging Technologies
Safety Module: OSHA Logging, Loss Control, Hazard Chemical Florida Highway Patrol – Trucking Regulations, Spill Prevention, Image, Public Relations, Working with People.
The 2021 Basic Four Hour Continuing Education courses includes Best Management Practices, Reforestation/Cost share, Transportation Policy in Florida, and Technology.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program (Master Logger) in 2021	Actual Number Attending Basic two-day Master Logger in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend 2-Day M.L. in 2022
Loggers	366	18	405	20
Non-Loggers	41	2	45	4
TOTALS	407	20	450	24

Program Funding:
The Florida Master Logger program is funded by the logger education workshop registration fees.

Program Revision:
As of February 6, 2018, the Florida SFI-SIC Logger Training Committee made the decision to include training from outside approved speakers for the Logger Training & Education, and the 2-day Master Logger Training Workshop for new loggers. The Florida Forest Service provides the video for Florida's Best Management Practices training, and the 2017 BMP Compliance Survey. All Florida trainers will use

this video and survey as their mandatory one hour of training. All presenters must receive approval for their three subject hours prior to any workshops.

Due to Covid-19 and gathering limitations we had challenges getting all loggers trained virtually in 2020. To accommodate the current conditions, we extended our training period through 2021 for 8 credits total. In 2021 there were a total of 432 loggers trained, however 25 loggers did not get their 8 credits over the two-year period. Therefore, 22 loggers and three non-logger's certifications expired. Currently, we have returned to a yearly schedule at the conclusion of 2021.

Training Records Location:
> http://floridaforest.org/programs/master-logger/master-logger-search-tool/

GEORGIA
Logger Training and Education Summary

Contact: **Chase Cook**
Program Coordinator, Georgia SFI Implementation Committee
Center for Forest Business
The University of Georgia
Athens, Georgia 30602-2152
Phone: (706) 542-7691
Email: cookfc@uga.edu

**Program
Name:**   **Georgia Master Timber Harvester**

The Georgia Master Timber Harvester (GA-MTH) program is comprised of two components:
1) GA-MTH introductory workshop training, or its equivalent, administered by the program office
2) Requirements for Continuing Logger Education (CLE), offered by a network of continuing education providers

**Current
Training
Available:**   Georgia Master Timber Harvester Introductory Workshop - The GA-MTH introductory workshop is designed to address the logger education requirements of the Sustainable Forestry Initiative® (SFI®) Program. The workshop generally covers three subject areas: environmental, business management, and safety.

The Environmental category focus is to allow loggers to become more conversant on forestry topics and for them to gain a greater appreciation of how their actions affect forest sustainability and vice versa. The Business Management and Safety categories address specific subjects that affect logging profitability and business survival. Foresters and landowners participating in the workshop may gain a better understanding of a logger's perspective, i.e., logging demands, considerations, and constraints.

The GA-SIC hosts both virtual and in-person introductory workshop formats. The virtual option is an asynchronous format with enrollment open February through November. The in-person workshop is offered at least two times per year, subject to minimum class enrollment.

Continuing Logger Education – The GA-MTH program office approves CLE credits but does not directly provide continuing education. The Southeastern Wood Producers Association and select technical colleges provide a variety of continuing education courses routinely approved for CLE credit. Courses offered through other education facilities, technical and professional meetings, and other venues are also routinely approved for CLE credits. Education approved for Continuing Forestry Education (CFE) credits, which are approved

by the Society of American Foresters, are also accepted for MTH continuing education purposes.

Continuing Education Requirements: Upon completion of the in-person (2-day) GA-MTH introductory workshop, GA-MTH active status is effective for a period of two (2) years. Upon completion of the virtual, on-demand option, GA-MTH active status is effective for a period of one (1) year. Beginning in 2022, four (4) hours of CLE are required to renew GA-MTH status for each annual renewal cycle. A minimum of one (1) of the four annually required hours must include Georgia CLE Category A credit hours, which encompasses forestry BMP content. The remaining four hours may include other relevant subjects approved for Georgia CLE or Society of American Foresters CFE credit hours. See gamth.org for more details.

Training Summary:

Participants	Actual Number Successfully Entered LT&E Program in 2021	Estimated* Number Attending At Least One Qualifying Course in 2021	Estimated Number Expected to Enter LT&E Program in 2022	Estimated** Number Expected to Attend Some Qualifying Courses in 2022
Logging Business Owners	47	204	47	315
Logging Business Employees	39	389	39	138
Other	39	266	39	173
TOTALS	125	859	125	626

Based on GA-MTH 2021 renewals and reinstatements.
**Based on 2022 GA-MTH expirations.

Program Funding: The program is funded by MTH participant fees and subsidized by Georgia SFI Implementation Committee participant company dues and contributions.

Training Modules: The MTH program directly provides introductory workshop instruction only. Program participants are directed to participate in qualified continuing education (e.g. approved CLE or CFE credits) to satisfy the program's continuing education requirements.

Online courses approved for CLE or CFE credits are accepted for GAMTH continuing education purposes, subject to additional online training requirements specified within Georgia's CLE standard. The Southern Region Extension Forestry's forestrywebinar.net

portal was the single largest source of online training utilized by GA-MTH program participants in 2021.

Training Records Location: GA-MTH program information, including directory of participants, can be found at a new website www.gamth.org.

IDAHO
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Julie Schwanz, Operations Manager/Idaho Pro-Logger Program Coordinator
ALC Services, Inc.
P.O. Box 671
Coeur d'Alene, Idaho 83814
208/667-6473   1-800-632-8743
E-mail: alc@idahologgers.com / julie@idahologgers.com

Current
Training
Available: The **Idaho Pro-Logger** program, established by Idaho's Associated Logging
Contractors in 2000, utilizes a curriculum offered by LEAP, a nationally acclaimed
Extension program. In addition, the program is designed to satisfy SFI education
requirements.

Focused primarily on in-field supervisors, and owners (including owner-operators),
the program consists of 28 credit hours in:

- Logging First Aid & Safety Training (4) as required in the OSHA regulations
and

- Completion of a 3-day LEAP (24) curriculum offered by University of Idaho
Extension covering silviculture, forest ecology and water quality.

To maintain active status with Idaho's Pro-Logger program after the initial
program, owner/contractors must maintain their compliance with 12 credits yearly
from approved courses. This includes that all employees and the owner/contractor
must maintain OSHA-required Logging First Aid & Safety certification.

- **Training**
Summary: * Actual Numbers reflect Covid-19 year lack of credit opportunities

Participants	Actual Number Completing Entire LT&E Program in **2021**	Actual Number Attending At Least One Course in **2021**	Estimated Number Expected to Complete LT&E Program in **2022**	Estimated Number Expected to Attend Some Courses in **2022**
Logging Contractors Logging Employees Other	460	523	480	530
TOTALS *	460	523	480	530

*Records do not indicate job classification. Numbers of those taking individual courses are primarily
program graduates taking continuing education courses to maintain their active status.*

- **Production Data:**   No current plans to track.

Program

Funding: The Idaho Pro-Logger Program is owned and operated by the Associated Logging Contractors of Idaho (ALC). The ALC has established two committees to assist in oversight and guidance of the IPL: 1.) the Idaho Pro-Logger Sub Committee whose members are ALC member logging contractors in good standing; 2.) the Idaho Pro-Logger Advisory Committee which consists of logging contractors, forest land owners, representatives of forest product companies, foresters, the University of Idaho Extension Forestry Department, the Idaho Department of Lands, inspectors from the Idaho State Logging Safety Program and the Associated Logging Contractors. These committees meet regularly to monitor and guide the program and make recommendations to the ALC Board of Directors for program governance. All final decision on the governance and operation of the IPL rest with ALC Board of Directors.

Training Modules:

(No online training modules were developed or offered in 2021.)

- **Training Records Posted or Available At:** (Please include the website link or e-mail contact where SFI members or program participants can access the training records of participants.) www.idahologgers.com or contact the ALC: alc@idahologgers.com

KENTUCKY
Logger Training and Education Summary

Contact: **Kentucky Master Logger Office**
University of Kentucky - Dept. of Forestry & Natural Resources
222 Thomas Poe Cooper Bldg. Lexington, Kentucky 40546-0073
Phone: (859) 257-6230
FAX: (859) 323-1031
KML Logger Line: (800) 859-6006
Website: http://www.masterlogger.org
Email: kml@uky.edu

**Program
Name:** **Kentucky Master Logger Program**
The Kentucky Master Logger (KML) Program was initiated in 1992 as a partnership between the University of Kentucky Cooperative Extension Service, Kentucky Forest Industries Association, Kentucky Division of Forestry, and Bryan Equipment Sales Inc.

Kentucky's Forest Conservation Act requires all commercial logging operations to have at least one Master Logger graduate on site. Master Loggers will be required to complete six hours of continuing education every three years.

Nine 3-day KML programs are scheduled at various regional training sites around the state during 2022. The cost is $85.00 per person for all three sessions. Training is required in the following areas:

**Required
Courses:** Laws and Regulations, Stream Crossings and BMPs regulations are taught by Beth Williams, Kentucky Division of Forestry Program Coordinator with assistance from additional KDF personnel. This session covers laws and regulations, effects of logging and site on regeneration and growth, construction of roads, stream crossings, landings and skid trails. Timber harvesting Best Management Practices are emphasized. Course length covers two days at six hours per day with both indoor and outdoor activities and demonstrations.

Logging Safety Course is taught by timber harvesting and safety specialists with Bryan Equipment (a regional Stihl distributor) or other qualified personnel, KFIA, and Kentucky Division of Forestry Personnel. Felling techniques, personal protective equipment, fatality information and OSHA standards and regulations are covered. Course length is six hours with both indoor and outdoor activities.

Other: Over 8,670 individuals have graduated since the KML program began in 1992 (272 Programs). The Kentucky Master Logger Program received the 1994 Governor's Environmental Excellence Award and was awarded the most outstanding Cooperative Extension Program in Kentucky in 1999.

There are 10 continuing education classes scheduled throughout 2022 by the Kentucky Master Logger (KML) office so that loggers can attain the six CEC's required to maintain their KML status. Kentucky Master Loggers can receive credit for attending programs not conducted by the KML Office, such as those conducted in other states or by industry as long as the program is approved for content by the KML office.

The KML web site (www.masterlogger.org) provides a complete listing of class schedules, registration form/information, Forest Conservation Act requirements, and who to contact for assistance or additional information.

Production Data: Kentucky Master Loggers harvest virtually 100 percent of the timber that is cut annually in Kentucky.

Training Summary:

Participants	3-Day KML Program — Actual Number Completing Entire LT&E Program in 2021	3-Day KML + CEU — Actual Number Attending At Least One Course in 2021	3-Day KML Program — Estimated Number Expected to Complete LT&E Program in 2022	3-Day KML + CEU — Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors and Employees	130	814	100	550
Landowners	8	15	10	25
Govt. Employees	4	12	10	20
Other	2	8	5	10
TOTALS	144	849	125	605

Program Funding: The 3-day program registration fee to participants is $85.00. The one-day continuing education programs that the Kentucky Master Logger office coordinates has a registration fee of $50.00 in most cases. This fee can fluctuate depending on the program being offered. Additional funds are collected through the $25.00 Kentucky Master Logger Card renewal fee, which participants have to pay every three years to maintain their designation.

Training Modules: No online training modules were developed or offered. Individuals participating in the Webinar Series (381 in 2021) must attend at the local Cooperative Extension Service Office to receive KML CE credit.

In 2022, New CEU courses include White Oak Production & Harvesting and a Sustainable Logging course.

Training Records Location: Contact the Kentucky Master Logger Office via phone at 859-257-6230 or 800-859-6006 or by email at **kml@uky.edu** to request any training records.

LOUISIANA
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Gracee Texada
                     Louisiana Forestry Association
                     P.O. Box 5067
                     Alexandria, Louisiana 71307
                     Phone: 318/443-2558
                     Email: gtexada@laforestry.com

Program Name:

The Louisiana Sustainable Forestry Initiative Education Program
The forestry community of Louisiana has developed a comprehensive program
designed to assist loggers, foresters, forest landowners, and others who work in
Louisiana forests harvesting the state's number one crop, "trees." The program is
designed to help respond to OSHA safety requirements, increasing environmental
concerns, sustainable forestry practices, and improved business management
techniques.   Individual workshops were designed to meet the SFI requirements
and were scheduled from January through November. Master Logger status is
required of all suppliers by the Louisiana Sustainable Forestry Initiative
participating companies. Completion of the program is required to be recognized
as a Master Logger by the Louisiana Logging Council and the Louisiana Forestry
Association. Each year Master Loggers who have successfully completed the
program's 6 hour per year Continuing Education requirement will receive a billfold
size card certifying they are in good standing.

Program Content:

Louisiana SIC's program is a very intensive two-day interactive training
workshop that contains the 2015-2019 Forest Management Standard Principles of
the Sustainable Forestry Initiative.

Educational methods used in the program include PowerPoint presentations,
breakout sessions, video presentations, panel discussions, and experiential field
exercises. Each session of the Louisiana Master Logger Core Training Program is
facilitated by experts in forestry, wildlife management, forest soils and hydrology,
governmental regulations, and safety and loss prevention.

Louisiana has partnered with OSHA to form an Alliance directed at education and
public outreach for logger safety. All La Master Loggers are covered under this
OSHA Alliance.

Participants in the Louisiana Master Logger Core Training Program receive
training and education in the thirteen principles of the Forest Management
Standard Principles of the Sustainable Forestry Initiative.

The thirteen management principles are:

1. Sustainable Forestry
2. Forest Productivity and Health
3. Protection of Water Resources
4. Protection of Biological Diversity
5. Aesthetics and Recreation
6. Protection of Special Sites
7. Responsible Fiber Sourcing in North America
8. Legal Compliance
9. Research
10. Training and Education
11. Community Involvement and Social Responsibility
12. Transparency
13. Continual Improvement

One important focus of the newly revised Louisiana Master Logger Core Training Program continues to be intensive training in the *Recommended Forestry Best Management Practices for Louisiana.* Voluntary compliance of Louisiana's Recommended Best Management Practices (BMPs) among Louisiana Master Loggers continues to be in excess of 94%. This high level of voluntary compliances demonstrates both the effectiveness and the importance of the Louisiana Master Logger Core Training Program.

Production Data:

An estimated total of 25 million tons of wood was produced for Louisiana mills in 2021. An estimated 24.6 million tons were produced by fully trained logging contractors.

Training Summary for Required Courses:

Participants	Actual Number Completing Master Logger Core Training Program in 2021	Actual Number Attending At Least One Continuing Education Course in 2021	Estimated Number Completing Master Logger Core Training Program in 2022	Estimated Number Expected to Attend Continuing Education Courses in 2022
Business Owners	18	379	18	379
Employees	13	198	13	198
Foresters	25	251	25	251
Other	3	21	3	21
TOTALS	118	849	118	849

Continuing Education:

Due to Covid-19 restrictions, we had one virtual training:
La Workers Comp Webinar 1/27/21 with 45 in attendance

Most of the training for La Loggers & Foresters was done on their job site with Safety Tail-gate meetings.

In 2021, we finished up with 1 combined (Cenla, NW, SW, and Florida Parishes) virtual forestry forum, with 50 in attendance.

Chapter meetings – 2 was held with 78 in attendance.

The main emphasis in 2021 was our Team Safe Trucking and Tailgate Safety meetings in the woods for all Louisiana Loggers and Foresters.

In 2022, our plans for continuing education will be focused on Team Safe Trucking classes.

Training Modules Webinars:

10/1/21	Invasive Feral Hogs	6 in attendance
10/1/21	Logger Relief Act	5 in attendance
02/8/21	Tree Farm Inspector training	20 in attendance

MAINE
2021
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Mike St. Peter, CLP Director   Jonathan Labonte, Executive Director
St. Peter Safety Services   Maine TREE Foundation
P.O. Box 557
573 Main St   535 Civic Center Drive
Jackman, Maine 04945   Augusta, Maine 04330
Phone: 207.668.2851   Phone: 207.621.9872
Email: clploggers@myfairpoint.net Email: cj@mainetree.org

Program Name: Certified Logging Professional Program

The CLP program offers professional training and certification for Maine loggers. CLP was founded in 1991, a combined effort of loggers, landowners, environmental specialists, and safety consultants to recognize a standard for professionalism in the Maine woods. An immediate goal of the program was to combat the high rate of logging accidents and the high Workers' Compensation costs for logging contractors.

Today, under the sponsorship of the Maine TREE Foundation, the program takes pride in the fact that conventional loggers have earned a Workers' Compensation rate 60% less than in 1993. The mechanical logging employees pay a rate 49% less than non-participants. Equally as important, our participants have helped CLP meet its overall objective of cultivating skill, knowledge, and pride in the Maine woods.

It is the mission of the CLP program to provide the most current training and education for workers in the Maine logging industry. The successful CLP candidate will be prepared to work safely, productively, in a manner that protects, enhances, and sustains the forest. Our program will evolve to reflect changes in the forest products industry and will provide a means for continual professional growth.

Required Courses:

To be certified, candidates must attend a CLP-sponsored four-day workshop and then participate in a performance-based work-site evaluation. The workshop includes three days of classroom instruction in first aid/CPR, forest management and silviculture, safe and efficient wood harvesting, and business/utilization. The final day for conventional loggers is devoted to on-site instruction and hands-on tree felling using a nationally recognized logging training system. In 2006, CLP developed training specific to mechanized logging operations. The four days of training is as follows:

Day 1
Introduction to CLP & SFI
Professional Code of Ethics
Intro to Safe and Efficient Harvesting
   Logging Safety rules, OSHA regs.
Transportation Safety
Intro to Business of Logging
   Workers' Compensation
   Independent Contractor Status
   Understanding Insurance
   Marketing & Utilization
   Tracking Operating Costs

Day 2
Forest Management/Silviculture
   Forest Ecology & Management Systems
   Harvesting Laws
Conserving Fish and Wildlife
Water Quality and Logging
   Best Management Practices
   Water Quality laws
Controlled Yarding
   Safe skidding and mech. harvesting
   Cutting Area Layout Exercise
Hazardous Material Training

Day 3
First Aid/CPR
   Evacuation Plan
   CPR and Rescue Breathing
   First Aid for Loggers
   Blood borne Pathogen Program
   First Aid Kit Inventory

Day 4
Directional Felling
   Level 1 Game of Logging
Certification Interview Form
Ice Damage Harvesting and Safety
   or
Mechanical Harvesting Safety & Efficiency

Certification:

To be certified, CLP candidates must pass an evaluation of their work site within six months of completing the course. Evaluator interviews and observes work practices, and then determine whether the logger adheres to the CLP principles. The evaluators recommend certification for the individual logger, to the CLP Board of Directors. Candidates are allowed as many follow-up evaluations as necessary to meet CLP standards.

CLP candidates are offered certification in <u>five</u> separate categories:

- *Conventional* – skidder and chainsaw operators
- *Mechanical* – harvesting and equipment operators.
- *Contractor/Supervisor* – employers and individuals who supervise loggers.
- *Associate* – people who have an interest in logging but who do not actively log or supervise loggers. This group includes foresters, truckers, and other stakeholders in the logging industry.
- *Apprentice* – graduates of high school and post-secondary wood harvesting programs who qualify for apprentice program. Certification may be granted following six months paid experience.

Re-Certification:

A one-day re-certification session and field inspection is required within a year after the initial instruction and certification, and every two years thereafter for all categories. CLPs may be re-certified in one of three categories: conventional, mechanical, or contractor/supervisor. Contractor/Supervisor must complete an additional day of job-site supervisor safety training within the first year. Certified Logging Associates must also attend re-certification classes and demonstrate their knowledge of CLP principles during re-certification field interviews. CLPs are subject to periodic inspections.

Re-Certification Courses:

Currently, CLP sponsors re-certification classes in Directional Felling- levels I-IV, Filing and Reduced Downtime, Reducing Residual Stand Damage, Haz Mat and Jobsite Safety, Back Safety & Ergonomics for Mechanical Loggers, Harvest Planning & Layout, Jobsite Safety & Evaluation, Invasive Insects, Industry Market Trends, Certification Systems, & Program Update classes for Supervisor/Contractors. CLP also approves outside workshops for re-certification in topics such as Best Management Practices, business management, estimating timber stand volume, skidder bridge mat construction, and aesthetics. Candidates for re-certification may submit a request to the Board for approval of outside training classes they have attended. Conventional CLP candidates must complete directional felling levels I-III before any other training will count toward their re-certification.

- **Training Summary:**

Certified Logging Professional Summary		Total (Completed Training in 2021)		Total Trained	Projected Training 2022	
Participants	Active CLPs	Certification	Recertification	Since 1991	Certification	Recertification
Logging Contractors	111	0	67	656	0	30
Logging Employees						
• Mechanical	675	37	354	2728	30	275
• Conventional	162	8	91	2,834	5	75
Others	64	5	43	561	5	20
Total	**1012**		**555**	**6779**	**40**	**400**

The total harvest production from loggers that are currently active or have previously participated in logger education is estimated to be 5.5 million cords.

Records for loggers active in the Certified Logger Program can be accessed at www.clploggers.com

MARYLAND/DELAWARE
LOGGER TRAINING AND EDUCATION SUMMARY - 2021

Contacts: Robert Beale, MD-DE Master Logger Steering Committee, Chairman
40570 Bishop Rd
Mechanicsville, MD
Phone: 240-434-1616
Email: lovevilletimberworks@verizon.net

Agnes Kedmenecz, MD-DE Master Logger, Program Coordinator
124 Wye Narrows Drive
Queenstown, MD 21658
Phone: 410-827-8056 ext. 125
Cell phone: 410-310-8445
Email: akedmen@umd.edu

Joe Hinson, Maryland Forests Association, Inc., President
P.O. Box 332
Linkwood, MD 21835
Email: joe@nnrg.com

Todd Berman, Sustainable Forestry Initiative Implementation
Committee, (SFI) Chairman
Pixelle Specialty Solutions
Attn: Todd Berman, SIC Chairman
228 South Main Street
Spring Grove, PA 17362
717-225-4711 ext. 2577
Email: todd.berman@pixelle.com

Program
Name: **Maryland-Delaware Master Logger Program**
The Maryland-Delaware Master Logger Program is a cooperative effort of
University of Maryland Extension (UME), Maryland Forests Association,
Maryland Forest Service, Delaware Forest Service, and the forest products industry
in Maryland and Delaware. A UME educator administers the program under the
guidance of the MD-DE Master Logger Steering Committee.

Required
Courses: The core component of the MD-DE Master Logger Program consists of four
modules and contains 16 educational hours. In addition to completing the core
education modules, participants must provide proof of current First Aid and CPR
certification and sign the declaration of intent to become an active MD-DE Master
Logger. All core courses are generally delivered using distance-learning formatted
materials. The core courses can be completed on-line, we can mail a USB or CD
and can also mail a paper copy of courses to potential MD-DE Master Loggers. The
core program contains the following topics:

Sustainable Forestry Core Courses (12 contact hours)

<u>Sustainable Forestry I: BMP's Erosion and Sediment Control; Logging Aesthetics (4 hours)</u>

- Maryland "Forestry Green Card" Erosion and Sediment Control Certification
- BMP Regulations
- BMP Principles and Practices
- Hazardous Chemical Spill Prevention and Control
- Timber Harvesting Aesthetics

<u>Sustainable Forest Management II: Forest Ecology and Silviculture; Forest Certification (4 hours)</u>

- Forest Certification
- Sustainable Forestry Initiative
- Introduction to Forest Ecology
- Introduction to Silviculture

<u>Sustainable Forestry III: Endangered Species; Logger Activism (4 hours)</u>

- History of Endangered species in the United States
- Introduction to the Endangered species act (ESA)
- Federal ESA regulations
- State Specific Rare, Threatened and Endangered species (RTE) regulations
- Description of MD State RTE species
- Introduction to Outreach and Activism
- Activism tools and techniques

OSHA Logging Safety Core Course (4 hours)

- Presentation of Statistics on Logging Injuries
- Introduction to Occupational Safety and Health Administration (OSHA) Logging Standard
- OSHA Requirements for Timber Harvesting
- Cutting Safety: Chainsaw and Mechanical
- Skidding Safe Practices
- Loading Safe Practices
- Trucking Safe Practices

- **First Aid and CPR**

  Training taken and maintained through nationally recognized programs such as American Red Cross or American Heart Association. On-line training courses not accepted.

- **Continuing Education Courses:**

Participants must complete 8 hours of continuing education courses every two years in order to maintain their active status in the program. MD-DE Master Logger program offered the following **continuing education internet-based programs in 2021**:

Date	Location	Event	Number of MD-DE Master Loggers
January 2021 to November 2021 Third Wednesday of each month. 12-1pm	Online	Woodland Wildlife Wednesday	3
May 20th, 2021	Online	Logging related Insurance Issues	1
May 2021 till November 2021 6:30-8:00pm Monthly webinars	Online	Mid Atlantic Logger Training Series	58 credits by 14 loggers
May 13th, 2021 9am-12pm	Online	SAF Spring Meeting Invaders Affecting our Forest Floor	3
		Total	21

MD-DE Master Logger Program offered the following **print/paper based continuing education programs** in 2021:

Title of publication	Number of MD-DE Master Loggers
Woodland Health Practices Manual and Checklist	16
Forestry Aesthetics Guide: Image and Opportunity, A Guide to the Aesthetics of Forest Operations in the South	8
Total	24

MD-DE Master Logger Program offered the **following continuing education face to face programs in 2021**:

Date	Location	Event	Number of MD-DE Master Loggers
August 13th, 2021 12:00pm-4:30pm	Western Maryland Research and Education center	Forest Friday Workshop	3
June 8th, 2021 6:00pm-8:00pm	WorWic College	Maryland Occupational Health and Safety	12

In addition, program participants can receive CE credit for participating in local forestry boards, taking community college classes, or organizing a tour of their operation. SFI-approved courses taken in West Virginia, Pennsylvania or Virginia may also be submitted for credit. Eligible program participants (those who have not taken the core program in the past two years) can also take the OSHA Logging Safety, Sustainable Forestry I, Sustainable Forestry II and Sustainable Forestry III classes for CE credit. To find online and other training course approved by the MD-DE Master Logger program visit: https://extension.umd.edu/masterlogger/logger-training-programs/continuing-education.

2021 Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Other	8 completed 2 registered, not yet completed	72 core courses enrollment 59 CECs	30	50
TOTALS	10*	131*	30*	50*

Records do not indicate job classification.

Production Data: Not Available.

**Program
Funding:**   In 2021, the program funding was provided primarily by assessments of SFI
participating companies and grants from Maryland and Delaware Forest Services.
Course fees also support program costs.

We continue to administer the Rudy Baliko scholarship. The MD-DE Master
Logger program is excited to partner with the Maryland Forest Association to
offer Logger training courses at no cost to Maryland and Delaware residents.
These courses include the 4 core courses related to safety, threatened &
endangered species and best management practices. This fund will also be
available for many continuing education courses that are offered through the MD-
DE Master Logger program. For more information please visit:
https://extension.umd.edu/masterlogger/master-logger-training-program .

Training Modules:

The MD-DE Master Logger program offers all four core courses as recorded CD,
USB drives and via the internet, provided on demand. The cost is $30 per logger
to take any core course.

Continuing education credits are obtained primarily in three ways:
> 1) Webinars, offered by Pennsylvania SFI, Cornell University Extension,
> Penn Forest Connect, the Virginia Sharp Logger program or other
> programs
> 2) Live workshops offered by UME once or twice each year in locations
> across the State.
> 3) Supporting agencies such as the Maryland Forest Service, University of
> Delaware Extension services, West Virginia Logger extension, West
> Virginia division of Forestry The Virginia Sharp Logger program, The
> Ohio Forests Association, Society of American Foresters and others that
> offer relevant education events.

Training Records Posted or Available at:

SFI members and MD-DE Master Logger program participants can access
participant training records by contacting Agnes Kedmenecz at
akedmen@umd.edu or by calling (410) 827-8056 x125.

<u>Courses scheduled for 2022</u>:

We will continue to work with potential MD-DE Master Loggers to offer the core courses through distance learning by CD, flash drive, print based and online through ELMS (the UME online learning portal).

The four MD-DE Master **Logger Core Courses** and Continuing Education programing:

Region in MD-DE	Date (All In Person)
Eastern	April
Southern	July or August
Western	November

The **continuing education credits (CECs)** that will be offered in 2022:

Region in MD-DE	Type of CEC
Internet based	Mid-Atlantic Logger training webinar series 2022
Southern, Eastern, Central and Western (All In Person)	Forest Harvest BMP's and water bars
Western and Southern (All In Person)	OSHA

The **continuing education credits (CECs)** that will be **offered by** MD-DE Master Logger **Steering committee members** in 2022:

Region in MD-DE	Type of CEC
Southern (All In Person)	Logger Safety

MICHIGAN
Logger Training and Education Summary

Contact: **Brandon Bal, CF**
Michigan SFI IC, Chair
110 W. Michigan Ave., Suite 100
Lansing, MI 48933
Phone: (517) 853-8880
Email: brandon.bal@afmforest.com

Program
Name: **Michigan SFI-IC Sustainable Forestry Education Program**
The MI SFI-IC Sustainable Forestry Education (SFE) Program is supported by SFI Program Participants throughout Michigan. It is funded through MI SFI IC Program Participant assessments and administered by the Michigan Forest Products Council Foundation through an MOU outlining a semi-autonomous relationship to provide educational programming. Furthermore, oversight and guidance of the MI SFI-IC SFE Logger Education is provided by the Michigan SFI Implementation Committee that meets throughout the year.

As logger education has matured over the last 25 years, changes to the logger education program have occurred that have caused some reshaping of the program and funding in response to this "maturation" process. Some of these changes have been driven by changes in the Sustainable Forestry Initiative (SFI) Standard and Rules as revisions were made, while others were made based upon how to improve the overall quality of the Logger Education program in Michigan.

The Michigan SFI Implementation Committee currently facilitates various training curriculum, calendar and schedules. Logger training is sponsored by a variety of groups including: MFPC, Michigan Association of Timbermen, various forest industry companies and many others.

Recap of Michigan SFE Logger Education in 2021
In 2021, the majority of logger education training was conducted online; COVID 19 restrictions continued to impact the in-person schedule of training sessions offered, however some in person trainings began to show back up. Continuing education (CE) training was completed through either Michigan State University Extension (MSUE), other online formats, or via limited contact in-person training sessions. CORE Trainings were conducted both in-person and via Zoom Teleconference service due to restrictions imposed on in-person meetings.

It should be noted that there are other types of continuing education training programs (for credit hours) which are sponsored by other allied forestry-based organization in Michigan, other than the MI SFI IC, during the year. Such organizations include, the Michigan Association of Timbermen, SFI Program Participants, Michigan Wisconsin Timber Professional Association, Greenstone Financial Services, and other forest industry companies. Various opportunities through Society of American Foresters are also eligible

for MI SFI CE credits. Michigan has a reciprocity agreement with the WI SFI IC as well. These training opportunities for obtaining MI SFI SFE training credits through partners was also greatly limited due to meeting restrictions.

The Michigan SFI IC tracks logger training and is the administrator of the QLP database.

Since 2006, participation in logger education programs in Michigan is now a requirement by both the forest industry as well as the State of Michigan. In 2006, state-owned forestlands in Michigan (managed by the Michigan Department of Natural Resources Forest Management Division) were certified under both the Sustainable Forestry Initiative and the Forest Stewardship Council certification systems.

Under the State of Michigan's certification standards, the MDNR – Forest Management Division has chosen to rely upon the MI SFE Logger Education program as the criteria for the trained logger or qualified logging professional (QLP) status. Any logger or timber company that wishes to bid on and harvest timber from state-owned forestlands must comply with the standards set forth under the MI SFI SFE Logger Education program.

Since the inception of the SFE Logger Education Program, the overall goals of the Michigan SFE program continue to be: 1) to provide needed core and continuing educational opportunities for loggers, foresters, and landowners and 2) to improve the level of communication between loggers, foresters, and landowners to enhance the sustainability of Michigan's forestlands. Better training and communication will hopefully lead to more sustainable management of Michigan's forestlands.

Required Courses:

NOTE: The MI SFI SFE Core Training courses are the only required courses in Michigan to attain QLP status. However, once a logging professional completes the CORE training program and becomes a QLP, they are required to complete 4 hours of CE annually to maintain QLP status. Loggers can choose from several options which, CE courses they wish to attend.

The MI SFI SFE CORE QLP Training Program is composed of four modules that total approximately 16 contact hours. Upon completion of the 16 hours, a Certificate of Completion is provided to participants. The four core workshop modules are:

Forest Ecology (2 hour) Silviculture (2 hours)
The forest ecology portion begins with an explanation for the development and establishment of the SFI certification program. It outlines the extent of the initiative and the guidelines for successful implementation. The underlying themes are: 1) the concern and action of foresters, loggers and landowners can lead to continued long-term sustainability of our forests for present and future needs and 2) the forest has many interconnections, many of which cannot be seen, that are vital to the maintenance of a healthy forest ecosystem.

The silviculture portion covers the definition and application of silvicultural treatments to forest management in Michigan. The goal is to show that silviculture has developed systems for the establishment, growth and regeneration of various tree species that are

intent upon ensuring stand quality, regeneration, and sustainability. The two underlying themes in this module are: 1) that silviculture is applying the knowledge of forest ecology and silvics to tree growing, and 2) that silviculture is dependent upon forest ecology concepts such as tolerance, site productivity and succession.

Sustainable Soil &Water Quality Best Management Practices (4 hours)
The best management practices module covers the description of how and why voluntary best management practices (BMPs) were developed for Michigan, how they can be applied during harvesting operations and how they are being monitored. This module also discusses the laws pertaining to maintaining water quality in Michigan, including when permits are needed, the requirements for permits and the public agencies responsible for issuing permits. The underlying themes in this module are: 1) that BMPs are voluntary; 2) BMPs can be used with little or no additional cost to landowner or logger in many instances; and 3) BMP implementation by loggers, foresters and landowners will be more effective for the ecological and economic sustainability of timber resources than state regulation.

Harvesting Safety Awareness (MIOSHA) (4 hours)
The harvesting safety awareness module stresses that timber harvesting is a dangerous occupation that can be made safer with improved adherence to safety regulations. Two underlying themes are: (1) there is a need to minimize hazards for workers, and (2) improved safety records leads to lower worker's compensation premiums. The goal is to make every participant aware of both the legal requirements and the latest safety practices to make the job site safer.

Field Application (4 hours or more)
The goal of a field day is to show and discuss many of the topics that were covered in the previous forest ecology, silviculture, and BMP modules. The underlying theme is that the combination of participant experience and knowledge with thoughtful application will provide for the long-term sustainability of forest management in Michigan.

Continuing Education Programs:

A large amount of the time and effort is dedicated towards the Michigan SFE Program Continuing Education requirements. Continuing Education (CE) is now a requirement in the 2015-2019 SFI Standard and Rules, the Michigan SFI IC also began preparing to adapt to the new 2022 SFI Standard and Rules. In Michigan, each logging company is required to designate key field personnel to complete the MI SFE Core Training Program and become a QLP. Our goal, is to have at minimum at least one trained person for each logging crew. A logging crew consists of a cutter and skidder. In addition to CORE, each QLP must complete *4 hours of CE annually*.

Following is a summary of training options that were offered as CORE and Continuing Education by MI-SFI IC and others for the 2021 calendar year:

   a. Online training conducted through MSUE on several SFI modules. There are 2 courses available, a 4 credit course and an 8 credit course. In this way QLPs were able to take a cumulative 12 credits of training online.

b. Several in-person trainings occurred throughout the year with modifications on location, topics, etc. as compared to the 2021 training schedule to be flexible around meeting and gathering restrictions.
c. There were some in-person as well as Zoom conducted CORE training sessions to allow initial QLP trainings.
d. Truck Safety trainings conducted by the MAT.
e. Mechanical Logging

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Natural Resource Mgr				
TOTALS	58	749	65	760

Additional Courses Available:

Safety Training
Safety training, while important, is not the primary focus of the SFE Logger Education Program. While safety is addressed in the CORE Training Program (i.e. the MIOSHA Logging Standard, etc.) and in a few SFE Continuing Education sessions throughout the year, there are other organizations in Michigan who conduct logger safety training on a more regular basis.

Industry and company meetings:
There are also training opportunities scheduled in with many day long spring logger meetings. These meetings may be sponsored by various trade associations of companies. We continue developing more outdoor training opportunities for 2021 as requested through contact and past surveys. We are also working on the development of an online CE training program with MSU. Continuing education credits through online MI SFI programs will be available in April of 2021.

MINNESOTA
Logger Training and Education Summary

Contact: **Rachel Peterson, Executive Director Minnesota Logger Education Program (MLEP)**
1111 Cloquet Avenue, Suite 7
Cloquet, MN 55720
Phone: (218) 879-5633
Web Page: http://www.mlep.org – sign up for our monthly e-Update!
Facebook: www.facebook.com/pages/Minnesota-Logger-Education-Program/149152883925
Email: Rachel.Peterson@mlep.org

Program Name: **Minnesota Logger Education Program**

The Minnesota Logger Education Program (MLEP) is a logger-initiated program established in 1995 to provide assistance to Minnesota's logging community through educational programming. This objective is accomplished by partnering with numerous groups to identify needs and facilitating the development design, delivery, and evaluation of programs which focus on sustainable forest management, transportation, safety and business management. MLEP, which is based in Cloquet, MN, is a 501(c)(3) organization.

The Minnesota Logger Education Program is governed by a thirteen-member board of directors representing the Independent Loggers, Timber Producers Association members, Minnesota Forestry Association, Department of Natural Resources, University of Minnesota, timber industry and environmental/conservation community. MLEP is committed to ensuring our training meets the expectations of loggers and industry - and the scrutiny of certification programs, customers, opinion leaders and the public.

MLEP membership is comprised of logging business owners, wood dealers and associate members. Membership is voluntary and reflects the commitment of logging business owners to safe, productive, and environmentally responsible timber harvesting. MLEP is funded through membership fees and grants.

Beyond its primary logger education focus, MLEP was involved with the development of Minnesota's Public Concern Registration Process and is a member of the Minnesota Sustainable Forestry Initiative® (SFI®) State Implementation Committee (SIC). MLEP is active in public outreach and landowner education efforts. Finally, MLEP has played an important role in assisting research efforts and the collection of information related to effective program planning and funding strategies for logger education programming throughout the United States.

Required Courses: Minnesota SFI® Implementation Committee Training Standard - 2020.

The 2015-2022 SFI Standard requires that, at a minimum "each crew must include a Qualified Logging Professional (QLP) who:
   1. has completed the SFI training program,
   2. is the owner of, an employee of, or a contractor for the wood producer, and
   3. has direct responsibility and is onsite regularly to carry out the roles and responsibilities of the qualified logging professional (e.g., safety, protection of soils, streams and other water bodies.)"*

Initial QLP training requirements
To initially become a QLP, it is necessary within a calendar year to complete the following:

Guideline Training: 6 hours of training on Minnesota's Forest Management Guidelines (provided through the online eFMG course covering BMPs)

Safety Training: 8 hours of First-aid and CPR training (must meet the LogSafe program training requirements as approved by the Department of Labor and Industry (DOLI)

Annual training requirements
To maintain QLP status after the initial year of training, a QLP must attend:

Safety Training - Twelve (12) hours of safety training every two years (must meet the LogSafe program training requirements as approved by Department of Labor and Industry (DOLI) to include:

- Eight (8) total hours of CPR/First-Aid Training: (four (4) hours of CPR <u>and</u> four (4) hours of First-Aid)
- Four (4) hours of Safety Training (OSHA)

Continuing Education – Six (6) hours of MN SIC approved training annually.

- Individual courses must address one or more of the topics as listed under indicators 1a-1k of Objective 6, Performance Measure 6.2 of the SFI 2015-2022 Fiber Sourcing Standard and Indicators 1a-1k of Objective 11, Performance Measure 11.2 of the SFI 2015-2019 Forest Management Standard.

The Minnesota SFI® Implementation Committee (MN SIC) has determined that the following requirements must be met in Minnesota:

Forest Management Standard and SFI 2015-2022 Fiber Sourcing Standard

Logger Certification:
The Minnesota Master Logger Certification (MMLC) has not been funded and is inactive in the state at this time. The Minnesota SIC recognizes the Minnesota Master Logger Certification (MMLC) program as meeting the requirements for a credible logger certification program as detailed in Objective   6, Performance Measure 6.2, Indicators

3a-3h of the SFI 2015-2019 Fiber Sourcing Standard and Objective 11, Performance Measure 11.2, Indicators 3a-3h of the SFI 2015-2019 Forest Management Standard. Further, a Minnesota Certified Master Logger is recognized by the MN SIC as a "certified logging professional (CLP)" as defined by the SFI 2015-2019 Standard.

*SFI 2015-2019 Forest Management Standard and SFI 2015-2022 Fiber Sourcing Standard.

QLP and CLP Lists
MLEP maintains an electronic training records database which is distributed quarterly to industry and public land management agencies. The report provides a timely training history of all QLPs in Minnesota. Additionally, a list of all current CLPs can be accessed. A detailed summary of the training sessions offered in the last two years is also provided.

Course Descriptions: Forest Management Guidelines Field Training

Training on Minnesota's Forest Management Guidelines is available online. The eFMG training provides an introduction to Minnesota's Forest Management and Biomass Harvesting Guidelines. All new MLEP members, as well as those reapplying for MLEP membership, are required to complete this training.

After finishing the training, participants will be knowledgeable of the Guidelines and how to implement them in their sale design and harvest operations. The online course is a series of modules that provide an overview of the Guidelines. Topics include: cultural resources, forest soils, riparian areas, wildlife habitat, stream & wetland approaches & crossings, spills, water diversion and erosion control, planning considerations and tools, visual quality and waterbody identification in the context of timber harvesting and forest road building.

Other MLEP continuing education training workshop options and descriptions
    2020 http://www.mlep.org/trainingcurrent.htm
    2019 http://www.mlep.org/training2019.htm
    2018 http://www.mlep.org/training2018.htm
    2017 http://www.mlep.org/training2017.htm
    2016 http://www.mlep.org/training2016.htm
    2015 http://www.mlep.org/training2015.htm
    2014 http://www.mlep.org/training2014.htm
    2013 http://www.mlep.org/training2013.htm
    2012 http://www.mlep.org/training2012.htm
    2011 http://www.mlep.org/training2011.htm
    2010 http://www.mlep.org/training2010.htm
    2009 http://www.mlep.org/training2009.htm
    2008 http://www.mlep.org/training2008.htm
    2007 http://www.mlep.org/training2007.htm

Online Training Options
http://www.mlep.org/trainingonlinemain.htm

Training Notes and Summaries from our workshops are available at:
www.mlep.org/trainingNotes.htm

Annual Membership Renewal: To maintain MLEP membership status, each business owner must provide verification of the non- educational requirements listed above, submit a membership renewal fee based on their annual timber volume, and attend two days of continuing education each year. Specific topics incorporated into training sessions will be determined on a year-to-year basis by the Board of Directors from among the following topic areas:

- Sustainable Forestry principles and the SFI program
- Transportation
- Business Management
- Logging safety
- Best management practices
- Reforestation, invasive plants and animals, aesthetics, forest resource conservation and special sites
- Responsibilities under the Endangered Species Act, wildlife habitat management
- OSHA, wage and hour rules, and other employment laws
- Public policy and outreach
- Emerging technologies
- Awareness of rare forested natural communities

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	325	346	330	350
Logging Employees	72	471	75	500
Natural Resource Mgr	19	29	20	30
TOTALS	416	846	425	880

Production Data: Survey updates indicate that MLEP members are responsible for harvesting more than 95% of the state's annual harvest of 2.9 million cords. Detailed information on the status and capacity of logging businesses in Minnesota's can be accessed here: http://www.forestry.umn.edu/sites/forestry.umn.edu/files/Staffpaper226.pdf

Program Funding: The Minnesota Logger Education Program is primarily funded through membership dues, some course fees and periodic grants. Logging business memberships are from $175-$350 annually. As a benefit of membership, almost all of MLEP's continuing education courses are free of charge for members and their employees.

MISSISSIPPI
Logger Training and Education Summary

Contact: **Dr. John B. Auel**
MS Professional Logging Manager Coordinator
Mississippi Forestry Association
6311 Ridgewood Road, Suite W405
Jackson, Mississippi 39211
Phone: (662) 617-0216
Email: jauel@msforestry.net

Program
Name: **Mississippi Professional Logging Manager Program**
The Mississippi Implementation Committee for SFI (MIC) and the Mississippi Forestry Association (MFA) provide a comprehensive continuing education program for loggers. The MS Professional Logging Manager Program (MS PLM) is designed specifically to meet the training requirements for Qualified Logging Professionals under the Sustainable Forestry Initiative standards.

Funding for the MS PLM program comes from three sources, a grant from the MIC, Mississippi Forestry Association, and registration fees. The MIC provides funds for the administrative assistant position, database maintenance and mailings. MFA provides coordinator salary and benefits. The majority of funding is generated from registration fees that vary by program offering to cover the costs of materials, meals, travel and contracted instructor fees. In 2021, 90 individuals attended one or more of the core class. An additional 620 individuals participated in program sponsored or approved continuing education activities.

Required
Courses: This Program includes training in the following areas:
1) Introduction to the Sustainable Forestry Initiative
2) Best Management Practices
3) Timber Harvesting and Transportation Safety
4) Logging Business Management (Also counts for Continuing Education credits, the other 3 do not.)
5) 12 Hours of Continuing education every two years (next deadline is December 1, 2022).

Other: During 2022, we will continue to offer the Core program and depending on Covid19 restrictions will offer in-person Business Management as well as continuing education programs.

Training Summary:

Participants	Actual Number Completing 1 or both Core Classes for PLM Programs in 2021	Actual Number Attending At Least One Core or CE Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Number of Individuals	93	1345	800	500
Totals	93	1345	620*	500

Total individuals participating in PLM programs. Another 500 or so submit hours from approved courses not taught by PLM.

Number of Individuals who are Qualified Logging Professionals – 1,466
Number of Qualified Logging Companies – 1,010

Production Data:
Accurate production figures are not available. Severance tax records are used to estimate total state production which is about 32 MM Tons.
It is estimated that over 90% of total production is delivered by PLM Loggers.

Training Modules:
As a response to Covid19, The Core Class of the MS PLM program was offered on-line throughout the beginning of the year. More individuals registered for programs than actually attended and this ratio was greater than for in-person classes. However, 93 individuals were able to take advantage of the program. CE credits were earned from a variety of available on-line sources as well the Mid-South Forestry Equipment Show. Programs were approved for credits by MS PLM.

Training Records Location:
The PLM website contains all training information. http://loggered.msstate.edu/

MONTANA
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Coleen Michael, Administrative Director
Montana Logging Association (MLA)
P.O. Box 1716
Kalispell, Montana 59901
Phone: 406/752-3168
Fax: 406/756-9574
Email: coleen@logging.org

Program
Name: <u>**Accredited Logging Professionals**</u>

Logger training in Montana began in 1994 when the MLA established Montana's "Accredited Logging Professional" (ALP) Program. As of January 2022, the program lists 157 active professional loggers in Montana.

The educational requirement for attainment of ALP status is completion of a 56 credits/hours curriculum. The annual requirement for retention of ALP status is 32 credits/hours.

The heart of the attainment phase of ALP is completion of Montana's "Forest Stewardship Workshop for Loggers," a 40 credit/hour mandatory course developed by extension forestry, which essentially mirrors the Forest Stewardship workshop developed for Montana landowners in 1991.

The ALP Program is a voluntary commitment by individual logging professionals overseen by a steering committee of ALP members and, in recent years administered in concert with Montana's SFI program through the Montana Forest Council.

The Forest Stewardship Workshop for Loggers is team-taught by Certified Stewardship Advisors through the cooperation of Extension Forestry – Montana State University.

The MLA believes this successful voluntary ALP Program operates in place of a state regulated certification or licensing program.

<u>Montana SIC-approved SFI® Logger Training Standards</u>

Preferred: Accredited Logging Professional (ALP) logger in good standing: 40 hour Forest Stewardship Workshop; BMP/SMZ training (renewal every three years); mandatory safety criteria (First Aid/CPR, OSHA, Worker's Compensation, etc.); 32 hours of continuing education per year.

Advanced: Basic requirement plus eight hours Advanced SFI® course that will include training on regeneration, silviculture, forest resource conservation, aesthetics, ESA and wildlife habitat, public policy and outreach. Five-year renewal.

Basic: BMP/SMZ Training, eight-hour course – **3 Year renewal**
Logger Safety First Aid/CPR - annually

Reciprocity:
Basic: To meet the Basic level, loggers from other states have to provide written evidence of completion of another state's logging safety training and provide valid First Aid/CPR certification. In addition, they must complete the Montana BMP/SMZ training at the next available course (the next May) and, in the interim, complete the Montana BMP/SMZ 'Tailgate' training program (provided by an SFI®-certified company forester).

Advanced: To meet the Advanced level, a logger would need to complete Basic and provide written evidence of having completed another state's SIC-approved SFI® training course.

Preferred: To meet this level, a logger would have to complete the Montana Forest Stewardship Workshop for Loggers or Landowners and qualify for all the other educational standards of the ALP program.

Required Courses: Specific elements of Montana's ALP program include the following requirements:

Forest Stewardship Workshop for Loggers
A 3-day workshop held in both classroom and field settings, with instructional materials on topics including…
1) How to read the forest. Is it healthy?
2) Identification of plants critical to forest health.
3) How to measure wildlife and livestock use in the forest.
4) How to develop a Forest Stewardship Plan.
5) The responsibilities of a professional logger.

Logging Safety Training
The development of a dynamic written safety program for logging operations including annual First Aid and CPR instruction for crew members.

Demonstration Field Audits
Since 1996, field audits have been conducted to provide loggers with decision-making skills that use Best Management Practices to avoid resource degradation.

Other: Required 32 hours of continuing logger education annually for company owners to maintain proficiency and ALP accreditation. Continuing education hours must be allocated to instruction in three areas:
- Forest Stewardship/Forestry
- Safety Hazards & Loss Prevention
- Operational Sustainability

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Other	116 41	1020**	120 40	1030
TOTALS	157	1020	160	1030

* Records do not indicate job classification.

Production Data: MLA estimates that 70% of the 380 MMBF annually harvested in Montana is produced by ALP loggers.

Program Funding: Base funding for the program is supplied through the Montana Forest Council (MFC), consisting of the MLA, the Montana Wood Products Association and SFI-participating members in Montana.

Minimal funds are also generated through individual workshop registration fees. Of worthy note, many workshop instructors volunteer their time, requiring that only expenses be reimbursed.

Training Modules:

Training Records Posted or Available: A complete list of "ALP" Loggers is available on the Montana Logging Association website: http://www.logging.org/. For specific member training records, contact the Montana Logging Association at 406-752-3168 or email: coleen@logging.org

NEW HAMPSHIRE
Logger Training and Education Summary

Contact: **Cheri Birch**
New Hampshire Timber Harvesting Council
54 Portsmouth Street
Concord, New Hampshire 03301
Phone: (603) 224-9699 (office)
(603) 801-7012 (cell)
Email: cbirch@nhtoa.org
Website: www.nhtoa.org

Program
Name: **New Hampshire Professional Loggers**
New Hampshire's Professional Loggers Program (PLP) is operated under the auspices of the New Hampshire Timber Harvesting Council in cooperation with the New Hampshire Timberland Owners Association, University of New Hampshire's (UNH) Thompson School of Applied Science, and the UNH Cooperative Extension. NH PLP is endorsed by the Sustainable Forestry Initiative.

PLP is a voluntary certification program open to anyone gainfully employed in the harvesting of timber, including trucking. To initially certify as a PLP graduate, 32 hours of course work are required in a four-year period. The NH Timber Harvesting Council has free, on-line access to its Logger Directory available at https://nhtoa.org/publications-and-media/certified-logger-list.html

There was a total of 590 attendees participating in PLP programs during 2019.

Required
Courses: For loggers, equipment operators, and others engaged in logging, four core areas of instruction (eight hours each) are required:

Fundamentals of Forestry
1) New Hampshire forest history
2) Basics of silviculture
3) Basics of tree biology
4) Basics of wildlife management
5) Log scaling/product optimization

Timber Harvesting Law
1) Applicable state laws and taxation
2) State BMPs
3) Wetlands Identification

Safe and Productive Felling (Basic)
1) OSHA guidelines
2) Safety apparel
3) Safe saw handling
4) Open face felling

First Aid and CPR (Basic)
1) First Aid and CPR training
2) Accident response & evacuation plan

Note: For truckers, a Safe Trucking course is offered as a substitute for Safe and Productive Felling. For mechanized logging contractors, a Mechanized Harvesting class is offered as a substitute for Safe and Productive Felling.

Other: Initial certification is for four years. First aid/CPR is required every two years and provides 1/2 of the credits (16 of 32) needed for re-certification. To maintain certification, loggers/truckers need to take only one class per year.

Continuing Education Courses: Representative courses offered by NH PLP that qualify for continuing education credit may include: Advanced Felling, Advanced First Aid, Log Valuation, Forest Health, business classes for logging contractors.

Training Summary:

Participants	Actual Number Getting Recertified or Newly Certified in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Attend At Least One Course in 2022	Estimated Number Getting Recertified or Newly Certified in 2022
TOTALS	21	336	250	25

Training Records Location: A current listing of loggers certified through the NH Professional Loggers Program can be found at:

https://nhtoa.org/publications-and-media/certified-logger-list.html

NEW YORK
2022
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: New York Logger Training, Inc.
James Waters
47 Van Alstyne Dr.
Rensselaer, New York 12144
Phone: 518/463-1297
Fax: 518/426-9502
Website: www.newyorkloggertraining.org
e-mail: jwaters@esfpa.org

Program Name: Trained Logger Certification Program (TLC)
TLC is operated by New York Logger Training Inc., a non-profit organization that coordinates logger training activities in New York. NYLT's Board is comprised of predominately loggers, as well as representatives from industry, academia, State government, and foresters.   NYLT has been issuing Certification since 1996.

TLC requires a participant to attend an initial core set of courses that certify him for 3 years. For continued certification, TLC graduates must take 3 credits (full day workshops) of accredited elective training courses. Individuals who have allowed their certification to expire may be eligible for reinstatement by meeting certain Continuing Education criteria and applying to the Certification Committee.

Required Courses: Three required core courses (8 hours each) cover the following topics:
Forest Ecology and Silviculture (includes BMPs)
Chain Saw Operation, Safety and Productivity (Game of Logging ᵗᵐ used)
First Aid Training and CPR

In addition to the workshops offered, several college level Forest Technician degree programs are accredited to bestow TLC to qualified students. NYLT has also accredited BOCES programs across NYS for students over 18 that have met the qualifications as well. An administrative fee of $25 for students to apply for NYLT TLC will be charged.

Other: Certification is valid for three years. 3 Continuing Education credits over the three year certification period and proof of valid First Aid and CPR are required for recertification. Workshops are available through existing providers or developed and presented by NYLT. Not all courses are offered every season. Continuing Ed (CE) , course topics include:
- Game of Logging (any level)
- Rehabilitation of Forest Stands
- Invasive Forest Species

- Header Planning & Safety Hazard Trees
- Mechanized Harvesting
- Critical Injury Response for Loggers
- Intro to GPS
- So you are a logger? There is an App for that!
- Be a go-to logger for landowners, foresters and legislators
- GIS for harvesters

Additionally, NYLT encourages participants to submit related training they may find through other organizations or which they need to take for other certifications for NYLT credit. Our Curriculum Committee reviews all requests and provides a response within a few days.

As of August 1, 2010, the NYS Department of Environmental Conservation required TLC for all persons working on state forestlands on contracts in excess of $500.

Training Summary: 2017, 2018, 2019 Estimated

Participants	Actual Number Completing Entire LT&E Program	Actual Number Attending At Least One Course	Estimated Number Expected to Complete LT&E Program	Estimated Number Expected to Attend Some Courses
2019	**229**	**470**	**--**	**--**
2020	**114**	**207**	**--**	**--**
2021	**117**	**577****	**--**	**--**
2022	**--**	**--**	**125**	**500**

Records do not indicate job classification – NYLT workshops are open to all participants regardless of affiliation or job description. However, our programs are for professionals in the field.
** 125 of the workshops were .25 on line credits offered through NYLT.

Online Records: Information on certified loggers can be found at
http://www.newyorkloggertraining.org/

NORTH CAROLINA
Logger Training and Education Summary

Contact: **Mike Powell**
                 North Carolina Forestry Association
                 1600 Glenwood Avenue, Suite I
                 Raleigh, North Carolina 27608-2355
                 Phone: (919) 834-3943 ext. 6
                 Cell: (704) 564-2168
                 Email: mpowell@ncforestry.org

Program
Name: **North Carolina ProLogger**
                 The North Carolina Forestry Association (NCFA) ProLogger Program provides
                 information and training in several major areas:

Required
Courses: Safety
                 Business Management
                 Transportation
                 Forest Management and Environment

                 These courses have been approved by the North Carolina Department of Community
                 Colleges as continuing education courses able to be taught at any of the state's 58
                 community college locations. Registrations are sent to the NCFA with a check for $250.00
                 to cover college fees, class workbooks and instructor fees. A portion of the registration
                 fee is allocated to membership, with all registrants becoming NCFA members. Instructors
                 are provided by the Division of Forest Resources, NC Dept of Labor (OSHA), Forestry
                 Mutual Insurance, NC State Highway Patrol, NC Department of Agriculture, American Tree
                 Farm System, NCFA staff, and others. They also provide support for the annual continuing
                 education requirements. Class content is updated as conditions warrant.

                 Each fall, schedules are established for the coming year's classes. Three are normally held
                 each year at different geographic locations across the state (Mountains, Piedmont, and
                 Coast). NCFA contacts the closest community college and schedules the classes. The three
                 basic concepts are interspersed over a two-day period.

                 The second day of training consists of a visit to an active logging site. Topics discussed
                 during the indoor sessions are applied in a practicum addressing safety, environmental,
                 and business issues. Upon completion of ProLogger Training, ProLoggers are required to
                 take a mandatory Module Training Class on an annual basis to remain in good status. The
                 year runs from June 30 – June 30.

**Training
Summary:**

Participants	Actual Number Completing Base Program in 2021	Actual Number Attending Ed Module Course in 2021	Estimated Number Expected to Complete Base Program in 2022	Estimated Number Expected to Attend Continuing Ed Module in 2022
Logging Contractors	45	975	57	955
Logging Employees	22	315	30	365
Other	5	48	10	125
*TOTALS	72	1338	97	1445

Combined totals

**Production
Data:** It is estimated that 90% of all forest products produced in the state is from trained loggers.

**Continuing
Education:** The continuing education requirement for the ProLogger program is an annual training program which is developed by the NCFA. The year runs from June 30th - June 30th. There is an annual fee of $110 which includes all class fees and membership in the NCFA. There are 1,338 ProLoggers who have met the requirements for the 2021-2022 year.

**Additional
Training:** Continuing Education Modules - One three-hour training session is produced to facilitate the annual continuing education requirement. Included in the series are the following topics:

Module 1 - (Obsolete)

Module 2 - Water Quality Field Session (one hour); Stream Identification and Classification (one hour); Keep NC Green and Growing (one hour).

Module 3 - Equipment Operation Safety (Feller Buncher, Skidder, Chain Saw) (one hour); Knuckleboom Loader Operation (one hour); Oil Spills and Hazardous Communication (one hour).

Module 4 - SFI for Professional Loggers (one hour); Forestry Aesthetics (one hour); BMPs for Land Management Contractors (one hour).

Module 5 - 4x4 Off Road Driving/In the Company of Trucks (one hour); Coaching the Professional Logger (one hour); Loss Control for the Professional Logger (one hour).

Module 6 - Overhead Hazards/Slips Trips and Falls (one hour); Bridgemats and Stream Crossings (one hour); Planning and Managing a Logging Job (one hour).

Module 7 - Log Deck Safety (one hour); BMP's for Skid Trails (40 minutes); OSHA Regulations (40 minutes); Hazard Materials Regulations (40 minutes); Equipment Maintenance (30 minutes).

Module 8 - NC Best Management Practices for Improving Water Quality + What to Expect from a Division of Forest Resources Inspection. NC implemented new BMPs for water quality late in 2006; this 3-hour DVD reviews changes and BMPs for improving water quality. Although fairly specific to North Carolina, other states could find it beneficial as well.

Module 9 - Skidder Safety; Guide to Insurance for Loggers; Load Securement for Roundwood; Transporting Construction Equipment; Threatened and Endangered Species for Loggers; this 3-hour training is the annual requirement for anyone who intends to maintain ProLogger status for the following year.

Module 10 - Storm Damage Safety (Chainsaw Operations); Safe Operating Around Power Lines; Logging Safety on Slopes; FRA Trucking Efficiency Workshop; Wood Chipper and Grinder Safety.

Module 11 (new for 2010-11) - BMPs for Sediment & Erosion Control; Better Stream Crossings Using Portable Skidder Bridges; Truck Cost Efficiency; CSA 2010; New Entry DOT Audits; Invasive Species

Module 12 - Operation Lifesaver, Be Seen Be Alive, Storm Damage, Field Technology, T.E.A.M. Fire Safety, PPE Review

Module 13 - In The Company of Trucks, Survivor Run, Green Light to Home, Rules & Regulations For Forest Trucking, BMP Review, NC Tree Farm Overview

Module 14 - Rutting Prevention, Emergency Action Plan, Overhead Hazards, Technology developments on New Equipment

Module 15 - Navigating the NCFA website, Hazard Communication MSDS to SD, Best Logging Business Practices, Liability Insurance

Module 16 - The Basics of Logging Cost Analysis, Balancing Biodiversity on the Landscape, Log Truck Safety, PPE Maintenance & PPE Use

Module 17 - Forest Health, Atlantic Coast Pipeline, Commitment to Compliance (water quality), Storm Damage Harvests, Log Deck Appearance and Oil Spills, Open Face Felling

Module 18 – Minimizing Impact of an Oil Spill, Identifying Boundary Lines, An Introduction to the Consultative Services Division of the OSHNC, Working around Power Line Right-of-Ways, and an Overview of the SFI Certification Program.

Module 19 – Dash Cameras, Importance of Soil Productivity, Proper Log Deck Safety, Importance of BMPs in Maintaining Water Quality, and an Overview of Team Safe Trucking.

Module 20 - Green Light to Home, Pre-Trip Inspections, Level 1 Inspections, Protecting your CSA Score, Dash Cams and GPS, and an overview of FPG's

Module 21 - Proper Load Securement, Rutting and Stream Crossing, Buffers and SMZ's; Trucking Safety, Top 20 Safety Tips, and an overview of Chipper Safety.

Module 22 – Picking out your Log Deck and Entrance, Log Deck Operations Safety, Non-Mechanized Logging Safety, Moving Logging Equipment to a New Site, When at the Mill, and Truck Driving in the Mountains.

Each module is self-contained and can be presented by a registered forester or another similarly qualified individual. Modules can be rented separately or purchased as a set. The concept is centered on convenience: a small group of loggers needing continuing education credits can order a set and arrange training on very short notice. Training is tracked on the NCFA ProLogger database that is available to NCFA member companies.

Program Funding: The ProLogger program initial (one-year) registration fee is $250 per participant; this covers community college fees, class workbooks, and instructor fees. A portion of the registration fee is allocated to membership, with all registrants becoming NCFA members. Continuing/renewing ProLogger program participants pay an annual fee of $110 which includes all class fees and membership in the NCFA. Registration fees cover approximately 50 percent of the ProLogger program costs. The balance is provided through NCFA funds and grants.

Training Modules: ProLogger continuing education classes are accessible online as an alternative to a face-to-face class. ProLoggers are given access to the online modules through assigned login credentials by NCFA.

Training Records Location: Accessible to NCFA/ProLogger member companies—login required. For more details on access, contact Mike Powell (mpowell@ncforestry.org).

OHIO
Logger Training and Education Summary

Contact: **Gayla Fleming**
Ohio Forestry Association
507 Main St. Suite 200
Zanesville, OH 43701-7303
Phone: (888) 388-7337 (888-38-TREES)
Fax: (740) 452-2552
Email: gayla@ohioforest.org

Program Name: **Ohio Master Logger Program**
The Ohio Master Logging Company Program is sponsored by the Ohio Forestry Association, Inc. and is administered by the Logging Standards Council. It is a voluntary logging company certification in a three-day program format. Individuals passing the certification test in Ohio can transfer training to the West Virginia program (W.Va. has additional licensing requirements), Kentucky program (Kentucky has additional licensing requirements), and Pennsylvania program (Pennsylvania has additional licensing requirements). Loggers certified under West Virginia's Logging Sediment Control Act may apply for Ohio's voluntary certification.

Required Courses: Three core courses are required in the following subject areas:

First Aid and CPR (arranged with local agencies, and must be Red Cross, American Heart Association, National Safety Council or equivalent training, online classes not accepted). OFA Loggers' Chapters own four mannequins for training purposes. Lease @ $5 per person for repair/replacement.

Chain Saw Safety Training - Vendors certified by Logging Standards Council of OFA; Chainsaw Safety Awareness that Works (CSAW) program offered by three designated Ohio trainers.

Best Management Practices - One program certified by Logging Standards Council of OFA: One- day statewide program, ½ day in class, ½ day in field.

Other: Trained Loggers must sign a Logging Ethics document

OFA certifies logging companies, not individual loggers. Recertification for logging companies, required every three years, includes the following subjects:

- First Aid/CPR - must possess valid cards (online courses not accepted)
- Workers' Compensation Certificate
- BMP Review - (two hours)
- Chain Saw Safety - (two hour)
- General Safety and New Issues Training - (four hours)

A representative from the Logging Company must attend nine OFA Loggers Chapter meetings over a three-year period. (OFA Loggers Chapter meetings often include continuing education classes).

Training Summary:

Participants	Actual Number Completing** Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	20	147	40	149
Logging Employees	36	225	55	207
Other	0	375		450
TOTALS	36*	600	55	657

Completed full certification or re-certification of program. Contractors represents companies, employees represent # of people
**Currently, there are 149 Ohio Master Logging companies and 207 trained loggers*

Production Data: Actual Production Data not available. However, we estimate that approximately 50% of the wood harvested in Ohio is from trained loggers.

Additional Training Available:
1) CSAW Levels 1 & 2
2) "Partnerships for Sustainable Forests" (SFISM-oriented) logger & landowner Workshops
3) "Be A Go-To-Logger" ethics training
4) West Virginia Logging Sediment Control Act training available for loggers that will be working in West Virginia (W.Va. has additional licensing requirements)
5) Regulations for Logging in Floodplains and Flood Easements – USACE
6) Other topics as approved by OFA's Logger Training Coordinator

OFA Loggers' Chapters quarterly or monthly meetings:
Nine chapters with approximately 160 members (total) offer programs at meetings concerning health and safety issues using OFA resources and outside consultants.

Ohio Forestry Association BWC (Bureau of Workers Comp) group program:

Offers quarterly seminars covering: (1) Employer/employee responsibilities for safety in the workplace, (2) Writing a comprehensive safety plan, (3) HAZCOM and lockout/tagout, (4) Skidder/loader training (field training), and (5) Compensation claims management.

Program Funding:

Current program support is provided in part by the Ohio Forestry Association's Workers' Compensation Self-Insurance Fund, SFI member companies, and ODNR Division of Forestry.

Training Modules:

No on-line modules available
Extensive library of FRA developed CD/DVD training modules available through loan from OFA office including: Storm Damage and Salvage Safety, Team FIRE Safety, Load Securement for Logs, OSHA Logging Safety Training, Forestry Aesthetics, Skidder Safety and Efficiency, The Cutting Edge of Safety, Hazardous Chemical Spill Prevention and Control for Logging Operations, Wood Chipper/Grinder Safety.

Training Records Location:

Current Ohio Master Loggers can be found via online search at the following link:
http://www.ohioforest.org/search/custom.asp?id=227
Contact the Ohio Forestry Association office for details on training courses completed by individuals.

OREGON 2022
LOGGER TRAINING AND EDUCATION SUMMARY:

Contact: Sara Nelson, Workforce Development Manager
Associated Oregon Loggers, Inc.
P.O. Box 12339
Salem, Oregon 97309
Phone: 503/364-1330, Fax: 503/364-0836
Email: snelson@oregonloggers.org
Website: www.oregonloggers.org

Program Name: **Oregon Professional Logger Program (OPL)**

Associated Oregon Loggers (AOL) established the Oregon Professional Logger program (OPL) in October, 1995. The OPL program is a voluntary professional standard that qualifies logging operator companies for their continuing education in the areas of forest practices, safety, business, and sustainable forestry. Across Oregon, logging operator companies—such as loggers, road builders, and other forest contractors—participate in the OPL program to achieve qualified logging professional status and continuing education expectations of those forest landowners and forest product mills with which they do business.

The OPL program is recognized by the Sustainable Forestry Initiative (SFI)-State Implementation Committee of Oregon—as Oregon's Qualified Logging Professional program. The OPL program is also recognized by American Logger Council's Master Logger Certification (MLC). Each OPL qualified logging operator satisfies standards for the MLC.

Effective January 1, 2023, the OPL Standard is being revised, to modify initial and maintenance requirements, improving sufficiency with the 2022 SFI Standard.

Required Courses: *Administration:* Associated Oregon Loggers Inc. administers the program and gives OPL qualification for enrollment and approved continuing education completed by an OPL company. AOL retains training records and an online directory, offers training, provides professional updates, qualifies OPL companies, and AOL administers OPL standards through its Board and committee. A written *'OPL Standards Handbook'* governs two important program aspects: 1) transparent and equitable administration of the OPL program by AOL; and 2) operator company requirements necessary to achieve OPL Qualified Logging Professional status.

Enrollment: Logging operator participation requires enrollment in the OPL program. AOL makes the program enrollment available to members as a free service, and to non-members for a subscription fee.

Self-Determined: A logging operator may select and attend education that each company self-determines is beneficial to their specific business. Additionally, the

OPL credit standards (outlined below) specify a core component of required "Forest Practices" classes.

Governance: The standards for the OPL program are directed by AOL's Board of Directors and an OPL Committee—both comprised of AOL Oregon logging operators.

Delinquency: OPL operators remain in good standing until either of four conditions apply: 1) delinquent annual maintenance credit; 2) non-payment of enrollment fees; 3) sanctioned for discrediting conduct; and/or 4) resignation.

Operations Review: OPL encourages logging operator understanding of Oregon Forest Practices Act & Rules, as well as sustainable forestry principles and regulations. If an OPL operator's actions discredit the OPL program, an Operations Review Committee would review the case and render appropriate OPL sanctions.

Credit Standards: Qualified OPL training is offered by many education providers around the state, including AOL. To initially earn Oregon Professional Logger status, a company must accumulate 32 credit hours of qualified education. Completion of training in two categories of approved education by any working owner or employee qualifies for program credit. Thereafter, a minimum of 10 credit hours per year is required to maintain a company's OPL status through the next calendar year. Two categories of approved education as follows:

Category A - Forest Practices (FP): Qualified education in Oregon Forest Practices Rules, and Oregon industrial fire and burning regulations, offered by a variety of providers—in cooperation with state forester instruction from Oregon Dept. of Forestry. Associated Oregon Loggers coordinates a number of Forest Practices seminars annually. Of the initial 32 credit hours, the 6-hour *'Basic Forest Practices Workshop'* must be completed. The *'Basic Forest Practices Workshop'* is co-sponsored by Oregon Dept. of Forestry and AOL. For OPL maintenance status, each year at least four of the 10 required credit hours must be completed in Category A-Forest Practices. Completion of the SFT-Video Employee Training *('Sustainable Forestry Training for Logging Operators' SFT)* is required to satisfy one (1) OPL-FP credit for both OPL Initial and Maintenance [verifying the company's field employees have annually completed the SFT module]. ODF, AOL, and other forest industry firms periodically offer additional Category A-Forest Practices short-programs, applicable toward OPL maintenance status.

Category B – Operator Business & Forestry: Qualified education includes, but is not limited to, forest business, harvesting, road construction & maintenance, operational methods, forestry, forest protection, and sustainable forestry principles. Category B also includes other forest-related business such as, bidding & negotiation, contracting, safety, insurance, first aid, emergency response, loss control, regulations, marketing, taxes, finances, accounting, costing, bookkeeping, computers, supervision, wage & labor law, forest policy, ethics, hiring practices, and other forestry or small-business management. Safety topics include return to

work, workers' compensation, claims management, safety incentive, MOD calculation, recent court cases, legal matters, OR-OSHA regulation, etc. Formal loss control assessments and forest practices consultations also qualify for credit.

Production Data: As of December 31, 2021, 580 logging operator companies maintain their Oregon Professional Logger status (OPL), representing roughly 56% of the state's estimated 1,100 logging companies. AOL projects that OPL loggers produced an estimated 2.9 billion board feet (76%), of Oregon's estimated 3.8 billion board foot sawtimber harvest statewide in calendar-year 2021.

Training Summary:

Participants	2/ Actual Number Completing Entire LT&E Program in 2021	3/ Actual Number Attending At Least One Course in 2021	2/ Estimated Number Expected to Complete LT&E Program in 2022	3/ Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Other	580 4000	600 5000	580 4000	600 5000
1/ COMPANY TOTALS	580	600	580	600

1/ OPL qualification is based on company recognition.
2/ Number of OPL qualified logging operator companies at year-end; and number of employees completing SFT-Employee Training module.
3/ Number of enrolled logging operator companies attending OPL qualified courses during the year; and number of employees attending an Oregon Forest Practices education program.

Additional Courses Available:

'Basic Forest Practices Workshop' and Forest Practices Classes
Oregon Dept. of Forestry (ODF) and AOL co-sponsor a 6-hour course addressing fundamentals of Oregon's forest regulations and sustainable forestry principles. The co-sponsors also periodically offer a variety of forest practices short-courses (1-4 hours), covering current Oregon forest regulation topics, involving either fire, burning, forest practices, or sustainable forestry matters. Landowners and mills also sponsor meetings/seminars, which may qualify for OPL Forest Practices credit.

'Sustainable Forestry for Logging Operators' (SFT-Employee Training)
Revised in 2016, this 60-minute video-based training module is an annual OPL requirement for all logging operator field employees. The purpose of the SFT is to inform workers about the following: sustainable forestry principles, Oregon forest regulations, improving forestry, and business management. This module was first published by AOL in 2000, revised in 2007, and again revised in 2016.

'Self-Test' Independent Study Assignments (for take-home use)
AOL offers OPL members the opportunity to complete independent study exercises, called 'Self-Tests.' Each 'Self-Test' includes a printed reading

assignment and 10-question written test—available for completion at the operator's work or home. A 'Self-Test' is offered periodically; each takes about an hour to complete; and each passing test submitted to AOL qualifies for 1 credit of OPL-FP. These 'Self-Tests' address current improvement topics in forest regulation and sustainable forestry.

'Logger Supervisor Training' by AOL
AOL offers a targeted supervisor training specifically designed for supervisors in the harvest industry. Topics covered in the 6-hour training include employee management, responsibility, safety, accountability, leadership, and "supervisor" responsibilities under OR-OSHA Forest Activities Code. Since 1996, supervisors from over 1,000 Oregon harvest contractors have received the training.

'Oregon's Forest Protection Laws: Illustrated Manual, 3rd Edition.'
AOL in 2018 helped revise and publish the 3rd edition of this useful 185-page illustrated handbook about Oregon's state forest practices and forest fire regulations. The Illustrated Manual is a popular teaching tool used at seminars addressing regulations for landowners and operators, including OPL-Forest Practices credit seminars.

Logging Safety Training DVDs for On-Site Use
AOL offers member forest operator companies at least 12 different training films about important & current logging safety topics. These DVD-based training modules target logging crews with short topics (5-25 minutes), such as: New Employee Orientation, Logging Near Powerlines, Machine Operation on Steep Slopes, Shop Safety, and Safe Firefighting.

Other Seminars
OPL qualified training is offered by many education providers around the state and region, such as: AOL meetings, AOL Safety Conference, Oregon Logging Conference, regional logging conferences, OR Dept. of Forestry, OR-OSHA, OR Bureau of Labor & Industries, OR Dept. of Transportation, OR Forest Resources Institute, Construction Contractors Board, SAIF Inc, insurers, county-state-federal agencies, community colleges, consultants, associations, OR State University-Extension, SFI landowners & mills, and other private or public training providers.

Other:

Oregon Professional Logger (OPL) companies are recognized throughout Oregon's forest sector, as Qualified Logging Professionals. An OPL Directory is made available to others online at: www.oregonloggers.org

Program Funding:

Oregon Professional Logger program funded primarily by Associated Oregon Loggers, Inc., as a service to its members and OPL Subscribers. The Sustainable Forestry Initiative (SFI)-State Implementation Committee of Oregon contributes a minority portion of OPL program operating expenses—recently $6,000/year.

Administration expense for the OPL program is borne primarily by Associated Oregon Loggers, Inc. AOL offers a few training programs (see above). Most classes are provided by other training organizations. Training costs for attending employees are paid by each OPL logging operator "company," such as registration, travel, wage, and lost production. AOL's training cooperator, Oregon Dept. of Forestry, provides support (instructors/curriculum/facilities) to the OPL education and classes offered in forest practices, fire, and burning regulation compliance. Over the 27-year history of the OPL, the SFI-Oregon Implementation Committee has contributed about $88,000 to support AOL administration of the OPL program.

Training Modules:

Two online training modules were developed and offered in 2021 by AOL. Additionally, other training vendors and agencies initiated numerous online training modules that were offered in 2021.

2.   **Data Details:**

More information about the Oregon Professional Logger program, and an OPL Directory of current OPL-Qualified Logging Professionals, is available online at: www.oregonloggers.org

PENNSYLVANIA
Logger Training and Education Summary

Contact: **Chuck Coup, Program Manager**
PA SFI Implementation Committee
211 Barrington Lane
Bellefonte, PA 16823
Phone: (814) 355-1010
Email: pasfi@sfiofpa.org
Website: www.sfiofpa.org

Program
Name: **Pennsylvania SFI® Professional Timber Harvester Training Program**

The Pennsylvania Sustainable Forestry Initiative® (SFI®) Implementation Committee (PA SIC) manages all aspects of the Pennsylvania SFI Professional Timber Harvester Training Program; the primary logger training program in Pennsylvania. The PA SIC is housed as an independent subcommittee of the Pennsylvania Forest Products Association (PFPA).

The PA SIC administers the program's training policies, develops course curriculum, schedules and delivers training statewide, and manages training records for the more than 7,000 individuals that have participated in our training program since 1995. The PA SIC utilizes paid and in-kind support from the Pennsylvania Department of Conservation and Natural Resource (DCNR) Bureau of Forestry, Penn State and Penn State Extension, industry, county conservation districts and a number of paid and volunteer instructors.

The program is operated within the SFI Standards and Rules related to Qualified Logging Professionals. The PA SIC does not audit the work of those who participate in the program and therefore does not "certify" individuals who maintain a current training status. The PA SIC recognizes training for individual loggers, not logging companies; however, the PA SIC does not endorse the work of individual loggers or businesses but verifies that they have met the training standards described in our Training Program Policy. Any person who has successfully completed our core training requirements and maintains a current training status in accordance with our program's continuing education requirements is recognized as a SFI Qualified Logging Professional in Pennsylvania.

Participation in the Pennsylvania SFI Professional Timber Harvester Training Program is voluntary; however, SFI Program Participants operating within the state, including the Pennsylvania DCNR Bureau of Forestry, and many non-certified entities such as the Pennsylvania Game Commission, other landowners, companies, agencies, and organizations across Pennsylvania require or recommend trained logging professionals for their timber harvesting operations.

The Pennsylvania SIC maintains training reciprocity MOUs with New York Logger Training and the Maryland-Delaware Master Logger program and has reached out to other border states. We also participate in the mid-Atlantic Logger Training Work Group.

Program Funding:
Program funding is provided by forest products companies and forest related organizations operating in Pennsylvania, grant monies when available, and registration fees from logger education workshops.

SFI Program Participants and other consuming mills that are not SFI certified but contribute to the program as PA SIC Partners are assessed SIC dues early in the year based on consumption from the previous year. Landowners are assessed based on acreage holdings. A number of additional companies and organizations that are not SFI certified but contribute to the program as PA SIC Supporters pledge a flat financial contribution each year.

Grant monies and other funding support have also come from the Pennsylvania Hardwoods Development Council, Pennsylvania's Hardwood Utilization Groups, and from County Conservation Districts.

Course registration fees vary based on the characteristics of each course and the availability of grants to supplant training costs. Our program recognizes the economic situation the logging community is confronted with and strives to ensure training is accessible to everyone. Registration fees are set with a goal to achieve a break-even scenario at the end of the training block.

Required Courses:

Core level
The core training component of the Pennsylvania SFI Professional Timber Harvester Training Program consists of two 8-hour courses, Professional Timber Harvesting Essentials and Game of Logging – Level 1 and requires that participants provide proof of current First Aid and CPR certification as required by OSHA standards for logging operations. Core training must be completed within a 24-month period. Upon completion of the core training requirements an individual receives a Pennsylvania SFI training credential valid through the end of the following calendar year and is recognized as a SFI Qualified Logging Professional.

Professional Timber Harvesting Essentials (8 hours)
This two-part course focuses on safety and environmental logging practices. Part one focuses on recognizing and avoiding hazards that timber harvesting operations encounter daily. It includes modules covering accident avoidance, chainsaw safety, equipment safety, truck safety, and an overview of OSHA regulations applicable to logging. Part two focuses on Pennsylvania's Clean Streams Laws and provides an overview of Pennsylvania's Erosion & Sediment Pollution Control Plans, permits a logger may need when working near streams and wetlands, Best Management Practices (BMPs), hazardous spill prevention and cleanup, and the importance of harvesting aesthetics, job layout, and planning.

Game of Logging – Level 1 (8 hours)
This well-respected training curriculum teaches chain saw skills and focuses on introducing participants to the "open face" felling technique and the development of

fundamental skills to safely fell trees. Topics covered include personal protective equipment, chainsaw safety features, chainsaw reactive forces, bore cutting, the 5-step felling plan, and understanding hinge wood function and characteristics.

First Aid and CPR (4 hours)
First Aid and CPR training is accepted from a variety of credible providers such as American Red Cross, American Heart Association, and the American Safety & Health Institute. The PA SIC coordinates some First Aid and CPR trainings at cost; however, training is readily available and often offered more conveniently outside our program. In accordance with OSHA regulations, the PA SIC does not accept online First Aid & CPR training.

Continuing Education (CE)
The PA SFI Professional Timber Harvester Training Program requires that individuals complete a minimum of four (4) hours of continuing education (CE) each year in order to progress their training card validation date and maintain a "current" training status. Individuals are allowed to take additional CE courses but cannot accumulate more than three (3) years of extended CE credit.
A number of CE course titles and descriptions periodically offered through the PA SFI Professional Timber Harvester Training Program are available on the PA SIC website (www.sfiofpa.org/requirements). Credit for courses taken outside of the PA SFI Professional Timber Harvester Training Program are available as long as the material is deemed to be relevant, similar in content, and if a legitimate form of attendance documentation is provided.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	23	283	40	250
Logging Employees	16	109	30	150
Other*	37	120	20	100
TOTALS	76	512	90	500

* Other may include some Logging Contractors or Logging Employees with unknown job classifications*

The summary figures above reflect the actual and estimated 1) number of individuals who successfully completed the core training requirements of the Pennsylvania SFI Professional Timber Harvester Training Program, and 2) number of individuals participating in at least one core or CE course during the year, either directly or through an outside offering approved by the PA SIC, excluding those who completed the core training requirements (i.e. the same individuals are not included in both categories). They

do not reflect the individuals who participated in multiple core or CE courses throughout the year (i.e. total training units – see below).

During 2021 the PA SIC conducted 51 training programs (28 core and 23 CE), through which 504 individuals completed 669 units of training. To clarify, a single individual taking three different courses during the year would constitute one individual and three units of training. Furthermore, the PA SIC approved 319 additional training units completed by 172 individuals (85 additional) through approved outside training opportunities. At the end of 2021, Pennsylvania had 710 SFI Qualified Logging Professionals. It should be noted that the Pennsylvania SFI Professional Timber Harvester Training Program is open to anyone interested and that not all of the individuals who participated offer timber harvesting services (landowners, foresters, other resource professionals, etc.).

Production Data: Production data for Pennsylvania's trained Professional Timber Harvester workforce is not available. 2019 US Department of Labor data for Pennsylvania indicates there are 2,205 fallers and logging equipment operators working in Pennsylvania. While not directly tied to production, it does give some comparison to the number of individuals with a current SFI Qualified Logging Professional status (710 at the end of 2021). As previously mentioned, DCNR, SFI Program Participants, and others have requirements to use SFI Qualified Logging Professionals.

On-Line Training Modules: In light of COVID19, the PA SIC has begun offering online training in the form of live meetings or webinars. The PA SIC does not currently have in-house asynchronous online training modules but does recognize relevant outside training modules of this type. Additionally, external organizations, such as Penn State University, offer a variety of 1-hour live webinars presenting relevant content which the PA SIC approves for CE credit when appropriate. The PA SIC continues to discuss the possibility of further utilizing online logger training courses in the future.

Training Records Location: www.sfiofpa.org/search

QUEBEC
Logger Training and Education Summary

Contact: **Louis-Serge Gagnon**
SIC Chair
WestRock
Phone: (819) 676-8100 ext 2825
Email: louis-serge.gagnon@westrock.com

Caroline Flaschner
SIC Coordinator
Le groupe DESFOR
Phone: (418) 660-2037
Email: caroline.flaschner@desfor.com

**Program
Name:**   Quebec SIC developed an on-line Wood Producer Training Program. This program is based on the training modules posted on its web site and the SFI Guidelines of minimal content for wood producer training program. The e-learning registration is open to everyone who wishes, but you have to create an account.

Public Land:
Forestry activities on public land must be done by certified companies. It can be ISO 14 001 certification or Forest Management Certification Program (CEAF). CEAF applies specifically to forest development activities and has been adapted to the Quebec context. It may be more suitable for small-sized companies.

Some of the program participants have their own training program. Those programs are based on the SIC Wood Producer Training Program to guarantee that they meet the SFI Standards requirements. If not, the program participant has to make sure that all requirements the SFI Standards requirements are covered by its training program.

All program participants who have supply from public forests, require their suppliers to ensure that the training given to their workers covers all the elements required by the standard. They must provide the Self-Declaration Training Content Form.

Private Land:
On private land program participants are giving training session on best management practices for wood producers delivering wood to their facilities. These training sessions are based on the Quebec SIC Wood Producer Training Program.

Program participants also promotes the on-line Wood Producer training Program and encourages wood producers to do the training and obtain the certificate of Qualified Logging Professional.

Also, many Marketing Board and Agency are promoting their own Wood Producer Training Programs (Formation entrepreneur accrédité).

Required Courses:

Public Land:
In addition to the SIC Program for qualified wood producer, each program participants have mandatory annual training session associated with ISO 14001, CEAF, BNQ and SFI, or other certification program, to make sure that every worker involve in the operation has the knowledge and are qualified.

For example:
- Domtar trained their logger every year on Health and Safety, environmental concern and forest certification.
- Resolute Forest product have annual training session for all employee covering:
  - Health and Safety;
  - Maintenance and repair – Lockout Procedure
  - Code of conduct;
  - Environmental concern and certification;
  - Roles and Responsibilities in FM certification;
  - Spill prevention

Private Land:
Program Participants work in collaboration with Marketing Board and Forest Agency for training and audit of private wood producers and contractors.

Program Participant with procurements from small private wood lots, promotes the e-learning Wood Producer Training Program. They also send training content to producers at the contract signoff.

Program Participants with large private land have minimum requirements of trained wood producers (Quebec SIC e-learning training program) for each contractor doing forest activities on their land. For those which only sell stumpage fees to contractors harvesting on their lots, the SFI Wood Producer training program is a contract obligation.

Production Data:

Public Land:
Because of the certification obligation for companies working on public land, 100 % of the wood from public land is considered as coming from fully trained logger.

Private Land:
On private land since there's no unique mandatory program, over 70 % of the wood from private land is coming from fully trained logger.

These statistics are an estimated percentage. Because there is no unique program of qualified wood producers in Quebec, the Committee takes for granted that all producers covered by either one of the programs are qualified.

Quebec SIC has centralized in his web site the information about qualified logging professional trained by Program Participants.

Program participants provide the list of trained workers after each training session and those lists are available for consultation by SIC members on the intranet section of the SIC website. This information is summarized in the training summary in this present report.

Every wood producer, woodlot owner or contractors who register and complete the e-learning wood producer program receives a training certificate valid for 5 years. The e-learning program began in 2017.In 2021 the Quebec SIC is reviewing its e-learning platform and revisiting the content of its training for assuring its adequation with SFI Standards especially the new requirements on climate changes. This update of the training will give the SIC the opportunity to promote the

In 2020 over 35 participants (contractors, foresters, landowners …) have completed the on-line training program.

Continuing Education:

Public Land:
On public land there is mandatory annual training. Each year program participants offer annual training and maintain a registry of participants at those trainings. Training material is update annually to include any changes in the legislation, in the SFI requirements or in intern requirements of each company.

Private Land:
Program participants work in collaboration with Marketing Board and Forest Agency to make audit with producers and contractors, and field visits to small woodlot owners for education on BMP's and SFI Principles.

Many wood producers are members of their regional Forest Association. Those associations offer various training to provide continuing education for their members,

Each year many program participants are participating at Marketing Board or Wood Lot Association events. This is the occasion to discuss any changes or new topics with wood producers.

In 2019 the Quebec SIC implemented a data base with the results of the verification made on private land by all program participants. With this consolidation of the information, the SIC can rapidly identify issues and be proactive if specific or additional training is needed.

Additional Training Available:

Additional training is offered by some program participant but not with the Quebec SIC Committee. For example:

For employees and contractors, they're are specific training base on their job description:
- Ecosystem-based management
- Field exercise on Emergency Situations (Fire, Spill, Accident)

- Safe driving
- Eco-driving
- First aid
- Annual training for loggers (Induction RNI_coupe)
- Annual training for road construction (Induction_ construction_chemin)
- Annual training for truck drivers (Induction_SST transport, Induction SST_Fardier)
- Annual training for sylviculture workers
- Annual training on specific Health and Safety topics (Induction SST_Pyrolyse du pneu)

For small woodlot owners:
- Field visits to small woodlot owners (education)
- Best Management Practices
- Basic SFI training

The Quebec SIC is also participating in many regional outreach activities to inform wood producers about BMP's and sustainability.

Program Funding:

Quebec SIC provided fund for the e-learning and the training modules available on its web site.

Each program participant is funding their additional training.

Training Modules:

Quebec SIC training program include specific modules on:
- Sustainable Forest Management Certification
- Quebec SFI Implementation Committee
- Introduction to Sustainable Forestry Initiative Standard
- Qualified Logging Professional
- Species at risk - Invasive specie
- Harvest, wildlife and site protection
- Best practices for access road and water quality
- Reforestation and aesthetic
- Management of hazardous materials
- Legal requirements for forest operations on private lands
- Health and Safety in logging operations
- Business Management

The Training Program is available on the SIC website https://sfi-quebec.org/#

Those modules are the core of the SIC e-learning program. Every wood producer who wishes so can go on-line, register and do the training modules. They must answer a few questions at the end of each module to make sure they read and understood the information. If they answer with success those questions, they will obtain a training certificate.

**Training
Records:**   Program participants provide the list of trained workers after each training session and those lists are available for consultation by SIC members on the intranet section of the SIC website.

With this registration process of the e-learning, the Quebec SIC have an up to date list of trained producers.

**Complete
Training
Summary
Details:**

Participants	Actual Number Completing Entire LT&E Program in 2020	Actual Number Attending at Least One Coursein 2020	Estimated Number Expected to Complete LT&E Program in 2021	Estimated Number Expected to Attend Some Courses in 2021
Logging Contractors	537	304	499	293
Logging Employees	1240	122	1090	135
Foresters	270	54	249	55
Landowners	507	35	515	37
Government Officials	20	9	20	11
Students	15	63	18	148
Other (silviculture workers, TLGIRT, suppliers)	592	313	566	290
TOTALS	**3181**	**900**	**2957**	**969**

Due to covid-19 situation in 2020, in some region there have not been training session provided by program participant to sub-contractors, government officials or silviculture workers. Those people were asked to go to the Quebec SIC website and do their own training with the SIC training module. Some of them may have been registered in the e-learning program, but for most of them the SIC doesn't have an estimation of the number of people trained.

SOUTH CAROLINA
Logger Training and Education Summary

Contact: Guy Sabin
Forestry Association of South Carolina
4901 Broad River Road
Columbia, South Carolina 29212
Phone: (803) 798-4170
Email: gsabin@scforestry.org

**Program
Name:**   <u>**South Carolina Timber Operations Professional (TOP) Program**</u>

The Timber Operations Professional (TOP) Program is the Forestry Association of South Carolina's commitment to raising the professional standard of timber harvesting. TOP is designed to improve safety, efficiency, and environmental protection.

The TOP Initial training course provides the latest information on timber harvesting, safety, business and environmental regulations. The course is tailored primarily for loggers, job foreman, contractors, and foresters.

An individual is considered TOP trained upon completion of the Initial course. To maintain trained status each person must pay an $80 annual fee and attend a facilitated video-based TOP Update class each year. The annual training deadline is June 30.

The annual TOP Update classes are offered by many mills, foresters, wood dealers and others. The SC Forestry Commission, SC Timber Producers Association, and Forestry Association of SC also offer classes each year. The class is also available as a live videoconference or on-demand online training.

The Forest Harvesting and Operations classes in the Clemson University and Horry Georgetown Technical College curriculums have been enhanced to meet Timber Operations Professional requirements, and students completing those courses are recognized as TOP Trained.

**Required
Courses:**   The TOP Initial course is an intensive one-day training program that is normally offered two times each year. Forestry students at Clemson University and Horry-Georgetown Technical college can also become trained through completion of harvesting and operations classes that have been adapted to meet TOP requirements. The primary topics covered in the TOP Initial course are:

       Forest Resource Conservation
       Sustainable Forest Management and the SFI Program
       Best Management Practices
       Wildlife and Biodiversity
       Timber Security and Forest Laws
       Safety and OSHA Regulations
       Employment Rights and Responsibilities
       Trucking & Transportation Issues

Advocacy – Public Policy & Outreach

Instructors for the TOP Initial course are provided by Forestry Association of SC, SC Timber Producers Association, SC Forestry Commission, SC State Transport Police, SC Department of Transportation, SC 811, New-Indy Containerboard, Forestry Mutual, Assured Partners, and others.

Other: Total training accomplishments to date include 3,831 graduates of the TOP Program. The 2021 TOP Update continuing education module was completed by 880 people through live videoconferences, small group training, and online training.

Training Summary:

Participants*	Actual Number Completing Entire LT&E Program in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Wood buyers/dealers Forest Industry			
TOTALS	133*	80*	1,050*

Records do not indicate job classification

Production Data: Estimated 98% of production capacity in SC comes from trained sources.

Additional Training Available: N/A

Funding: The TOP Program is a self-supporting program of the Forestry Association of South Carolina. Registration for the TOP Initial class is $200, and the annual registration fee is $80.

Training Modules: The 2022 TOP Update Facilitators Guide and training materials are available for download at no charge, or a training packet can be purchased from the Forestry Association of SC for $50 at www.scforestry.org . Classes must be facilitated by a SC Registered Forester or other person approved by the training committee. On-demand training is offered through the Team Safe Trucking online learning portal.

2022 TOP Update Topics:
- Their Words: Chipper Blade Accident

- Conservation Easements
- Temporary Bridges
- Color, Space, and Communications on the Log Deck
- SC 811 Gas Line Safety

Training
Records
Location: SC TOP Program information and training status by name or company are available online at www.scforestry.org/top-forestry-programs.htm

TENNESSEE
Logger Training and Education Summary

Contact: **Candace Dinwiddie**
Tennessee Forestry Association
P.O. Box 290693
Nashville, Tennessee 37229-0693
Phone: (615) 883-3832
Fax: (615) 883-0515
Email: cdinwiddie@tnforestry.com

**Program
Name:**   **Tennessee Master Logger**

Tennessee's Master Logger Program consists of 5 one-day sessions, given once every two weeks within a ten-consecutive week period. The cost is $160.00 for the 5-day course. This cost also includes a 2-year TFA membership. (Continuing education cost (every two years) is $75.)

In 2015 our SFI committee requested that we now show Master Logger card expiration dates as 12/31 two years from the year that the initial course or continuing education (CE) class was taken (e.g., the loggers receiving a Master Logger card any time during 2017 showed an expiration date of 12/31/19, even if they had taken the class(es) in early 2017). Our SFI committee members believed it would facilitate easier reporting with a uniform expiration date.

**Required
Courses:**   Training is required in the following five areas:

Safety - covers general safety practices, DOT and OSHA safety regulations, trucking safety, and equipment and chain saw safety. SFI principles are also covered in this session.

Water Quality/BMPs - is split into two parts. This first part is a classroom session covering information about Forest Hydrology (water cycles, stream ecology, erosion and sedimentation), Forest Health and Stress (logging, grazing, fire, insects, and disease), and Tennessee's Best Management Practices. BMP session includes an outdoor portion.

The second part is the Water Quality Lab in the field, and covers stream ecology, compaction and infiltration, erosion, road location, soil, and habitat enhancement.

Forest Management - is also split into class and field training. The class topics include a History of Tennessee Forests (types, statistics, physiographic regions, ownerships) Forest Growth and Sites (site index, aspect, site/species relationships, tree biology, succession and tolerance, silvics of important species), Regeneration versus Thinning, Harvest Systems (clearcutting, shelterwood, seed tree selection, group selection), Wildlife Biology, Endangered Species, and Public Awareness.

First Aid/CPR - completion of a Red Cross or equivalent course.

Business Management - financial management, bookkeeping, marketing, insurance, personnel and related laws are taught by professionals (usually local business owners) in each field.

NOTE: 3 5-day courses were held. Independent Stand and Heaven Hill Distillery and a record number attended in Crossville, Spring 2021. 5 day courses were also held in Waynesboro and Tazewell.

Continuing Education Program:

Tennessee Master Loggers may renew their Master Logger status by completing one day of continuing education every two years. The $75.00 renewal fee includes membership in TFA for 2 years.

Several new CE classes for 2016-17 were developed by the University of Tennessee, including: Silviculture; Markets & Workforce Development; Timber Measurements & Stand Evaluation; Industry Overview & Forest Products Processing. The TN Division of Forestry continues to provide excellent training on Best Management Practices. We also provide updates on fuel use and efficiency by Parman Oil Company, and Forest Resources Technology gives presentations on efficiency through use of new computer programs. Forestry Mutual Insurance Company provides top-notch and timely safety training.

Our Master Logger Committee continues to be active within TFA and takes pride in the "hands on" training offered in the Master Logger course. Every CE class has an afternoon field trip to the woods component and the loggers are engaged in discussion and activities in the woods. Our classes are still offered throughout the state, usually in about 20 locations for the CE classes during the year; we make every effort to make it as convenient as possible for our loggers to attend.

The 5-day initial Master Logger program and Continuing Education classes still prioritize water quality and BMPs, and loggers are always provided information to ensure that water quality remains a focus.

Other continuing education classes taught in past years include: Log Grading, Logging Costs/Efficiency, Wildlife Biology, SFI Compliance, Advanced BMPs/Road Building, Wetlands BMPs, Visual Impacts, Truck Safety, Woods & Woodyard Safety, Emerald Ash Borer & Thousand Cankers Disease, Biomass Harvesting, Wood Products Certification, Stream Delineation Workshop, Forest Roads/Water Control, Log Bucking taught by UT Extension.

NOTE: All of the continuing education classes conducted during 2020 were held outdoors (in picnic shelters) very early or late in the year, and participants abided by CDC COVID safety guidelines.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors Logging Employees Or Other	3 5-day courses were held in 2021			
TOTALS	65*	360**	45*	350**

Records do not indicate job classification.

** Most of these are individuals who completed their one-course continuing education requirements to retain their Master Logger status.

The Tennessee Master Logger database was revised during 2008 to indicate if the logger was an owner operator or crew member. However, the reporting numbers were not broken down by classification.

Production Data: Not Available.

Program Funding: Funding is provided through registration fees: $160.00 for the 5-day course and $75.00 for Continuing Ed (required every 2 years). The Tennessee Dept. of Agriculture generously provides funding support through the Tennessee Agricultural Enhancement Program to assist with staff time, supplies, travel, and other support costs to conduct the training. The TN SFI Committee also provides some funding to help with travel costs and other expenses related to the Master Logger Program.

Training Modules: No online training modules were developed or offered. The TN forest industry reps, Univ. of TN and TN Dept. of Agriculture sponsors and instructors, and the loggers believe the person-to-person interaction, time spent in the woods in every Master Logger program class, and the opportunity for instructors and participants to get to know each other serves us well in Tennessee.

Training Records Location: http://www.tnforestry.com/files/1131/masterloggerdb.cfm
(Master Logger searchable database)

TEXAS

Logger Training and Education Summary

Contact:	**Susan Stutts, Senior Director**
	Texas Forestry Association
	P.O. Box 1488
	Lufkin, Texas 75902-1488
	Phone: (936) 632-8733
	Fax: (936) 632-9461
	Email: sstutts@texasforestry.org

**Program
Name:**   **Texas Pro Logger and Continuing Education Program**
The following four courses are required for persons to attend in order to be classified as a Texas Pro Logger:

(1) Best Management Practices (includes a field trip)
(2) Silviculture, Wildlife, Wetlands & Endangered Species, Invasive Species, and Aesthetics
(3) Safety Training
(4) Business Management

All logging contractors and foremen are encouraged take all courses to qualify for the Texas Pro Logger Certificate. All employees should take the Safety Training.

**Continuing
Education:**   To maintain the Pro Logger status, each must have at least six (6) hours of continuing education annually. Several opportunities for continuing education were available throughout the year, either in-house (6) or qualifying hours were available through other organizations. Some online training is available at tfatraining.org.

Other: The Texas SIC conducts all core trainings LIVE, and several continuing education trainings LIVE. In addition, online training is provided for additional Safety, Business Management, and Forestry BMPs at http://tfatraining.org/

Training

Summary:

Participants	Actual Number Completing Core LT&E Program in 2021	Actual Number Attending At Least One Core Course in 2021	Actual Number Attending At Least One Continuing Ed Course in 2021	Estimated Number Expected to Complete Core LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022**
Loggers	42	0	450	75	567
*Other	14	0	44	10	68
TOTALS	56	0	494	85	635

*Other – consists mainly of industry procurement foresters and timber buyers.
**Includes CEU and Core training

Production: In 2019, 484.8 million cubic feet of pine and 81.3 million cubic feet of hardwood were harvested in Texas for industrial consumption, an increase in pine production and a slight decrease in hardwood production over the previous reporting period. At this time, there is no formal reporting effort on how much of the timber is harvested by trained loggers. However, the Texas SIC estimates that 95% is produced by trained loggers. Production figures are not yet available for 2020/2021.

Funding: Consuming mills in Texas are assessed SFI dues early in the year, based on consumption for the previous year. In addition, TIMO's and REIT's and other large landowners are assessed SFI dues based on acreage holdings.

Training Records Location: Training records are posted up-to-date on Texas Forestry Association's website at http://www.texasforestry.org/programs/logger-listing

VERMONT

Logger Training and Education Summary

Contact: **David Birdsall**
                  LEAP Coordinator
                  41 Northrup Road
                  Town of Tinmouth
                  Middletown Springs, VT 05757
                  Phone: (802) 235-2908
                  Email: dwbirdsall@vermontel.net
                  Website: www.vtleap.com

**Program
Name:**   Logger Education to Advance Professionalism (LEAP)
                  The purpose of the Vermont LEAP program is to promote a professional approach to
                  logging by providing the knowledge necessary for loggers to work safely, efficiently, and in
                  an environmentally conscientious manner while harvesting timber in Vermont.

**VT Workers
Compensation
Safety
Program:**   The Vermont LEAP Program in conjunction with the State of VT has implemented a
                  Workers' Compensation Safety Program that will reduce the cost of WC by 15%.
                  For more information about this program see this website:
                  https://fpr.vermont.gov/vermont-logger-safety-and-workers-compensation-
                  insurance-program

**Required
Courses:**   We have two categories or tracts that a logger will choose from.

                  - **Non-Mechanized Logging Contractor**
                    Or
                  - **Mechanized Logging Contractor**

                  All loggers must complete the following workshops:
                  - Managing and Using Forest Ecosystems
                  - Professionalism in Forestry
                  - Advanced Logger Safety

                  In addition to the above there are workshops geared to each category.
                  Mechanized Logging Contractors will take: Mechanized Safety

                  Non-Mechanized Logging Contractors will take: Four Levels of the Game of Logging

                  Loggers will have two years to complete these workshops.

Continuing

**Education
Program:** To maintain the VT LEAP certification a logger is required to participate in Two workshops every Two years and maintain their First Aid and CPR certification. One workshop must be a Safety workshop. The other can be an elective of their choice or public service. We are allowing Loggers to challenge the FA & CPR course vs. repeating the whole day every two years.

The Electives and can be selected from the following subject areas, but are not limited to:

Wildlife Habitat
Low-Impact Harvesting
Log Marking
Surveys & Boundaries
Business Management
Garage Safety
Trucking Safety
Technology in the Industry
Marketing
Game of Logging Level 5
Game of Logging Storm Damage Cleanup

**Training
Summary:** **Due to Covid-19, all workshops were cancelled in 2020.** The Surrounding SFI Mills and other SFI organizations all graciously agreed to let loggers take a hiatus from the training. The Loggers will pick up where they left off, now in 2021.

Participants	Actual Number Completing Entire LT&E Program in 2020	Actual Number Attending At Least One Course in 2020	Estimated Number Expected to Complete LT&E Program in 2021	Estimated Number Expected to Attend Some Courses in 2021
Logging Contractors & Employees	0	0	40	200
Others, Foresters & Landowners	0	0	5	25
TOTALS	0	0	45	205

**Production
Data:** An estimation of 250,000 Cords produced by certified loggers.

**Funding
Sources for**

the Program: LEAP is primarily funded by the one-time Registration fee of $300 and workshop day fees. International Paper has graciously sponsored the program with donations between $500 and $1,000 / year. The Vermont Legislature had generously budgeted for this last fiscal year, money to offset the cost of the workshops. We receive no monies from SFI.   We received a grant to upgrade our website, making it more user friendly and offering a lot more information including online registrations. With this grant we have created an eNews that will be sent out periodically, this newsletter will have a section for advertisements.

Online Training Modules: No online training modules are used or have been developed, though we may be headed that way.

Training Records Locations: Information about the LEAP Program and its members can be found at www.vtleap.com

VIRGINIA

Logger Training and Education Summary

Contact: **Karen Snape, Extension Associate**
                      Scott Barrett, Extension Specialist, Forest Operations
                      and SHARP Logger Program Coordinator
                      Virginia Tech Forestry Extension,
                      Department of Forest Resources & Environmental Conservation (0324)
                      228 Cheatham Hall
                      Blacksburg, VA 24061
                      Phone: (540) 231-6494
                      Fax: (540) 231-3330
                      Email: SHARPlogger@vt.edu
                      Website: www.SHARPlogger.vt.edu

Program
Name: **Virginia SHARP Logger**
                      The Sustainable Harvest And Resource Professional (SHARP) Logger program was
                      implemented in April 1996. The curriculum includes course subjects in safety, sustainable
                      forestry and the Sustainable Forestry Initiative^{SM}, silviculture, harvest planning, and Best
                      Management Practices. It is geared towards logging business owners and/or selected
                      crew members and foresters. Virginia Tech Forestry Extension is responsible for
                      coordinating the SHARP Logger program.

Required
Courses: The core program covers the following topics:

                      Logging Safety - The subjects offered include (1) Overview of OSHA Logging Safety
                      Standards and Recordkeeping Requirements, (2) Logging Equipment Safety, (3) Log Truck
                      Safety (DOT requirements), and (4) Chain Saw Safety.

                      Sustainable Forestry - This course includes an in-depth discussion of sustainable forestry
                      and the key elements for achieving this goal. An explanation of how the SFI^{SM} program
                      was developed and implemented follows. There are also discussions and presentations
                      on forest management, forestry aesthetics and ways loggers can better communicate
                      with landowners. The second part of this course is a field lab designed to introduce
                      loggers to the basic concepts of silviculture and ecology.

                      Harvest Planning and Best Management Practices - An overview of harvest planning is
                      typically followed by a field exercise where participants develop their own harvest plans.
                      The BMP program includes local, state and federal water quality regulations, the
                      comparison of forestry to other non-point sources of pollutants and the Virginia Forestry
                      BMP Manual.

Continuing Education: Most SHARP Loggers must earn 12 hours of Continuing Education (CE) credits every three years in order to maintain current SHARP Logger status. To conform with national standards, the SHARP Logger program is transitioning to require 8 hours of CE every two years, beginning with those who took the Core Program to become SHARP Loggers in 2021 and those with 1/1/2022 renewal dates. At least 3 CE credits must come from the required SHARP Logger Update. Continuing Education programs offered in 2021 include:

        SHARP Logger Update Class
        Safety and Legal Seminar
        Area Logger Day with Chainsaw Demonstration
        Hardwood Management
        Trucking Safety
        Topics in Sustainable Forestry with Mill Tour

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
TOTALS	135	801	100	1000

Production Data: It is estimated that over 90% of Virginia's wood is produced by fully trained loggers.

Other: SHARP Logger Newsletter sent out quarterly by Virginia Tech Forestry Extension. www.virginiaSFI.org offers a description of the Virginia SFI^SM program including links to the SHARP Logger website.

Program Funding: The SHARP Logger Program Coordinator's position is funded by Virginia Cooperative Extension and program operating costs are funded by the VA SFI SIC. SHARP Logger classes are offered at no charge to participants.

Online Training Modules: Online trainings have been available through the SHARP Logger website at www.SHARPlogger.vt.edu since 2009. Trainings are available to anyone that wants to access them, and there is no fee for using the online training. Trainings utilize Adobe Captivate software and the Kaltura video platform: Viewers simply click on a link and the training module will start automatically. In 2021, the SHARP Logger program partnered with its counterparts in Maryland/Delaware, Ohio, and West Virginia to create the Mid-Atlantic Logger Training (MALT) webinar series. These webinars are available for credit

through the WVU Extension Service Online Learning Community (WVU Extension Service Online Community Learning System). The webinars are free but require registration.

Current Online Trainings Include:
  BMPs for Temporary Haul Roads and Skid Trail Closeout
  Limbing and Topping Safety
  Forestry BMPs: Applied Research Results
  Protecting Water Quality with Best Management Practices in Virginia
  Laws Affecting Water Quality and Forestry Operations in Virginia
  Basic Timber Cruising – Timber Inventory & Assessment
  How to Conduct a Property Deed Search
  Basic Chainsaw Safety & Directional Felling
  Skidder Safety & Efficiency
  Invasive Insect Pests
  SHARP Logger Update Class
  SFI & Logger Training (MALT)
  Endangered Species and Loggers (MALT)
  Weathering the Storm (MALT)
  OSHA's Most Dangerous Occupation (MALT)
  Deer and Forest Management (MALT)
  Truck Accidents and Other Casualty Claims (MALT)

Training Records Location: Virginia's SHARP Logger Program information, including training records of individuals, may be found at www.SHARPlogger.vt.edu.

WASHINGTON
LOGGER TRAINING AND EDUCATION SUMMARY

Contact: Jerry Bonagofsky, President
Washington Contract Loggers Association (WCLA)
2421 Pacific Avenue; P.O. Box 2168
Olympia, Washington 98507
Phone: 800/422-0074
Fax: 360/943-8544
Email: Jerryb@loggers.com

Program
Name: **Master Logger Program**
In July 1994, the WCLA Board approved the formation of a training program for loggers, run by loggers, called the Master Logger Program (MLP). It is designed for the company owner as well as supervisory personnel; however, any employee may attend, as it is a voluntary program. An MLP Steering Committee was chosen to prepare the guidelines, select courses, set schedules, and answer any formation questions. After the Steering Committee completed its duties, WCLA formulated a board to oversee the program

WCLA implemented the MLP in early 1995. As of 12-31-21 a total of 1001 individuals representing about 465 companies meet the requirements for the MLP. WCLA utilizes state agency personnel and private individuals that are qualified in the subject areas as a core of instructors. The courses are typically held two or three times a year.

Required
Courses: The Master Logger Program (MLP) consists of completing the following curriculum:

---

1.   Forest Ecology and Silviculture
- **Principles of ecology and silviculture**
- **Forest health**
- **Forest soils**
- **Reforestation**
- **Managing forests for wildlife**

---

2.   Safety & Workers Compensation Issues
- **Accident prevention programs, safety training, hazard recognition, complying with regulations, and accident investigation procedures**
- **Transportation safety**
- **Worker's compensation regulations and claims management**
- **Employer record keeping and reporting**
- **Overview of the Sustainable Forestry Initiative**

---

3.   Forest Practices
- **Forest practice applications**
- **Riparian and wetlands protection**
- **Regeneration requirements**
- **Wildlife tree requirements**
- **Road construction and maintenance**
- **Cultural resources**
- **Enforcement and assistance**

---

4.   Logging Business Management
- **Business taxes**
- **Insurance requirements**
- **Operational costs**
- **Financial management and credit**
- **Ethics and image of the logger**

First Aid Training **(must include CPR and First aid)**
- **A valid first aid card is required. However, first aid is not included in the curriculum**

Other: 8 hours of continuing education is required every year to maintain Master Logger status – a number of elective courses are available.

In 2021, WCLA trained about 680 loggers in first aid, and provided other safety training to over 400 employees.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in **2021**	Actual Number Attending At Least One Course in **2021**	Estimated Number Expected to Complete LT&E Program in **2022**	Estimated Number Expected to Attend Some Courses in **2022**
Logging Contractors	12	38	10	25
Logging Employees	14	34	25	40
1) Other	11	37	10	15
TOTALS	37	109	45	80

Production
Data: 2.5 billion board feet produced by Master Loggers in 2021.

Program
Funding: Each module costs each attendee $40 if they are a WCLA member, $125 if they are not. The Washington SFI State Implementation Committee donated $5000 in 2021 to support logger training. Companies with Master Loggers must be active members of WCLA or pay an annual non-member service fee of $175. Overhead for the training classes is minimized by utilizing WCLA staff and state agency personnel as instructors.

<u>Training Modules:</u>

(No online training modules were developed or offered in 2020)

Training Records Posted or Available At:

http://63.134.238.39/MLPList.asp

WEST VIRGINIA
Logger Training and Education Summary

Contact: **Eric Carlson**
                   West Virginia Forestry Association
                   2008 Quarrier St.
                   Charleston, West Virginia 25311
                   681/265-5019
                   eric@wvfa.org

Program
Name: **West Virginia Logger Training and Education**
                   West Virginia's Logger Training and Education Program operates under the auspices of
                   the West Virginia Forestry Association (WVFA) and the West Virginia Division of Forestry
                   (WVDOF).

                   The WVFA, the WVDOF, the Appalachian Hardwood Center (AHC) at West Virginia
                   University, and the WV Sustainable Forestry Initiative-State Implementation Committee
                   (SFI-SIC) are all involved in logger training programs in West Virginia.

                   Logger Certification is required under West Virginia's Logging Sediment Control Act. At
                   least one person on each logging job must complete the following courses to obtain initial
                   certified logger status.
                   In 2020, COVID restrictions required cancelling all in person classes. Some onling training
                   was available so the training summary indicates the serious reduction in training.

Required
Courses: First Aid Training - Conducted by West Virginia Forestry Association Safety Committee in
                   various areas of the state according to need. Cost is $65 per person. The Standard First
                   Aid and CPR course, including Bloodborne Pathogens training, is eight hours.   The
                   schedule is announced through WVFA and the WVDOF. Individuals may also obtain this
                   training from other sources including online training and that has dominated in 2021 due
                   to COVID restrictions.

                   BMP Training - More than twenty Best Management Practices for Loggers Workshops are
                   scheduled (typically one or two each month) rotating among the six WVDOF Regions.
                   Workshops are conducted by WVDOF staff and are announced and publicized by the
                   WVDOF.   The   schedule   of   training   sessions   is   available   on   their   website
                   (www.wvforestry.com). The workshops are six to seven hours in length, and there is no
                   cost to the logger. The WVDOF provides staff support for this training in excess of
                   $120,000 annually.

                   Tree Felling Safety & Personal Safety Equipment Workshop - These classes are conducted
                   monthly by West Virginia Division of Forestry personnel and sub-contractors at a central
                   location in the state.

**Continuing
Education
Courses:** West Virginia's Logging Sediment Control Act requires loggers to maintain a valid First Aid card and complete an additional six "credit hours" of classes every two years to retain certification. Two of these six hours must be in a "BMP Update" class. The other 4 hours can be obtained from any training approved by the West Virginia Division of Forestry. Any SAF approved training is acceptable. Proof of attendance and completion must be given to the WVDOF. The Best Management Practices for Loggers Workshops are also used for recertification training. A certified logger may participate in just the 2 hour "BMP update" portion of the training or may participate in the entire workshop to obtain the six hours of continuing education credits for the two-year period. The Best Management Practices training modules continue to be updated and revised.

Current Training modules include:
1. Best Management Practices Instruction
2. Road and Operations Planning
   a) Topographic Map Reading
   b) Impacts of Soil Types
   c) Positive and negative control points to use or avoid
3. Safety
   a) Chainsaw and Tree Felling
   b) Equipment
   c) OSHA Requirements
4. Quarantine Information from the Dept. of Ag. for Exotic Pests
5. Sustainable Forestry Initiative – topics identified in the SFI Standard (11.2.1) for logger training.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors/ Logging Employees Others/Foresters				
TOTALS	182*	813*	90*	870*

*Records do not indicate job classification.

**Production
Data:**   Not Available.

**Program
Funding:**   Program funding is primarily through registration fees for some classes and through internal support by WVFA, WVDOF and companies that support the SFI.

**Training
Modules:**   The WVDOF, WVFA, SFI-SIC, and AHC have started efforts to enhance the West Virginia Logger Training and Education. Collectively, these organizations will work to improve the relevance of topics, identify and develop curriculum to include more hands-on, in-field, blended learning activities, and to decrease the period between training contacts. Efforts in 2018 resulted in legislation being passed in 2019 adopting 6-credit hour training requirement every 2 years to maintain logger certification. Training modules can be developed and given by industry representatives or any of the aforementioned groups. Proposed training modules need to be approved and assigned credit hours by the WVDOF and sign in rosters need to be submitted to the WVDOF. SAF approved courses are recognized by the DOF. New training modules were developed in 2022 that included a regional network with Maryland, Virginia, and Ohio. that expose logging contractors to all elements of the SFI standard on logger training.

**Training
Records
Location:**   http://www.wvforestry.com/CLLIST.pdf

WESTERN CANADA
(BRITISH COLUMBIA, ALBERTA AND SASKATCHEWAN)
Logger Training and Education Summary

Contact:	**Jessica Hochins, RPF**
	Chair WCSIC Logger Training Sub-Committee
	Skeena Sawmills Ltd
	5330 Highway 16 West
	Terrace BC V8G0C6
	Phone: (250) 635-6336 Ext. 1104

Program Name:

WCSIC Training Policy
Basic Training Requirements for Logging Contractors Working for SFI Program Participants.

Required Courses:

1. SFI General Awareness Training (Principles and Objectives)
2. Safety oriented laws and regulations
3. General awareness of provincial Forestry Legislation
4. Water Quality Best Management Practice Training (i.e. may include road construction / deactivation, site preparation, riparian management etc.), including protection of non-forested wetlands
5. Species at risk awareness training
6. Invasive species (aquatic and terrestrial, as applicable)
7. Forest resource conservation and special sites
8. Harvest effects on aesthetics

Production Data:

Reported by individual program participants as part of the annual progress reported submitted to SFI Inc.

Continuing Education:

Each member company (program participant) prepares their program to ensure training is refreshed on a continual basis. Member companies will update training modules based on new information or to address deficiencies identified in inspections, audits or other feedback sources.

Additional Training Available:

Additional training is at the discretion of member companies. WCSIC does not collect additional training data. Training resources and opportunities for wood producers are provided in section 6 of the WCSIC Training Policy.

Program
Funding: Each program participant funds their individual training program.

Training
Modules: Training materials required to deliver the training program identified in Table 1 of the WCSIC Training Policy to logging contractors working for program participants are maintained by individual program participants. For larger program participants with multiple operations these training materials are typically maintained and delivered separately by each operation.

Training
Summary:

Participants	Actual Number Completing Entire LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022
Logging Contractors	723		1000	
Logging Employees				
Foresters				
Landowners				
Government Officials				
Students				
Other	21		25	
*TOTALS	744		1025	

* Combined totals

Other: Information presented may not be a true reflection of the results of this category as reporting by category is not specifically requested. Other category includes Consultants, Planting Companies/tree planters/brushing/, Sawmills/Pulpmills fibre supply, Biologists, Engineers, etc.

WISCONSIN
Logger Training and Education Summary

Contact: **Forest Industry Safety & Training Alliance, Inc (FISTA)**
P.O. Box 714
Rhinelander, WI 54501
Phone: (800) 551-2656
Fax: 715-304-2873
Email: info@fistausa.org

Program
Name: **Wisconsin Logger Training and Education Program**
Historically, various groups and organizations in Wisconsin have offered training workshops and education programs for loggers. During 1995, however, a group of loggers, industry representatives, and other interested stakeholders formed the Wisconsin Logger Training and Education (LT&E) Committee to look at coordinating and funding these programs. The Wisconsin LT&E Committee identified the Forest Industry Safety & Training Alliance (FISTA) as the logical umbrella organization to coordinate all new and existing logger training and education efforts in Wisconsin.

Required
Courses: The Wisconsin SFI® Implementation Committee (SIC) has updated the training curriculum to conform to the 2022 SFI® Training Standards. Anyone who needs to become SFI® certified must complete 12 hours of Core Training, consisting of 8 hours of BMP's for Water Quality and the 4 hour Basic Core II class, along with attending a 4 hour continuing education workshop. Hours of training can be obtained by taking a FISTA coordinated workshop or a meeting or conference which has been pre-approved for external credit.   The categories listed below constitute Wisconsin's SFI® Training Standard.

Best Management Practices (BMP 's) Workshops
FISTA personnel organize and conduct these sessions along with forest industry professionals and the Wisconsin Department of Natural Resources. As long as SFI ® certification remains current, BMP's only need to be taken one time with updated information and changes being covered in related workshops.

BMP for Water Quality
Core Curriculum (8 hours)
These workshops address planning, timber harvesting, forest road design and location, wetland and stream crossing, riparian management zones, and permitting.

Basic Core II
Core Curriculum (4 Hours)
This workshop covers the awareness of responsibilities under the U.S. Endangered Species Act, the Canadian Species at Risk Act, Forests with Exceptional Conservation

Value (critically imperiled and imperiled species and ecological communities), and other measures to protect biodiversity and wildlife habitat. Includes U.S. Occupational Safety and Health Administration rules for logger safety, wage and hour rules, and other state, and local employment laws.

Continuing Education Workshops (4 hours)
In 2021, FISTA scheduled 34 (4hr) C.E. workshops. Out of those 34 we had 27 of the classes with a total attendance of 528. FISTA's online training was developed and went live early in 2020, enabling 525 people to receive their C.E. training throughout 2021. Currently for 2022, there are 3 (4hr) C.E classes to be held in various locations around the state. The workshops schedule is as followed:

In-Person Workshop Name	# Scheduled in 2021	# Held in 2021	Scheduled for 2022
BMP's for Water Quality	4	3	5
BMP's for Invasive Species	4	3 (1 Virtual)	-
Basic Core II (2022 New Core Req)	-	-	32
Chainsaw Safety	-	-	-
D.O.T. Compliance	3	3	1
Current Hot Topics in Forestry	-	-	-
Chainsaw Safety Refresher	1	1	-
Hydraulic Safety	4	3	-
OSHA for Loggers	-	-	-
Pesticide Applicator Training & Exam	-	-	-
QuickBooks	-	-	-
Silviculture & Timber Sale Marking	2	1	1
Successioning Your Business	-	-	-
Timber Economics	-	-	-
1st Aid / CPR	2	2	-
Harvester Bar & Chains	2	1	-
Forest Policy	1	1	-
Tire Maintenance & Safety	-	-	-
Mechanized Training	2	1	-
Chemical Spills on Logging Operations	-	-	-
Oak Wilt ID & Management	2	2	-
Cross Training for Loggers & Foresters	-	-	-
Timber Cruising	2	2	1
Log Scaling & Grading	2	2	-
Insurance Basics for Forest Products Businesses	2	2	-
Forest Fire Safety	2	1	-
Adapting to Climate Changes	1	0	-
Water Quality Refresher	2	2	-

Online Workshop Name
Online Water Quality Refresher
Online Invasive Species Refresher
Online Adapting to Climate Change

Online DOT Compliance
Online Forestry Transportation (Courses Through Team Safe Trucking)

**Training
Summary:**

Participants	Actual Number Completing Entire Beginning LT&E Program in 2021	Actual Number Attending At Least One Course in 2021	Actual Number Attending Approved Electives in 2021	Estimated Number Expected to Complete LT&E Program in 2022	Estimated Number Expected to Attend Some Courses in 2022	Estimated Number Expected to Attend Approved Electives in 2022
Logging Contractors Logging Employers Other						
TOTALS	27	1789	390	30	1500	50

* Records do note indicate job classification.

**Program
Funding:**   The primary source of funding is obtained from the forest industry through a voluntary per cord assessment based on the amount of Wisconsin-based wood consumed. Additional funding comes from Registration fees and, in the past, sponsorship for costs relating to conferences, from forestry related businesses and organizations. Some instructor/facilitator expense is also covered through volunteer efforts of individuals from forestry companies and agencies.

**Training
Modules:**   FISTA offers options for online training and approved electives. Online training courses are self-paced and meet the Wisconsin SIC 2022 SFI training standards. These courses can be found on FISTA's website: www.fistausa.org