

**Report on the
Status of Logger Training and Education (LT&E) Programs
in 35 Forested U.S. States & 3 Canadian Provinces**

2019 Actuals – 2020 Estimates



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SFI-00001

Compiled by



September 8, 2020



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FOREWORD

This *Report on the Status of Logger Training and Education (LT&E) Programs in 35 Forested U.S. States & 3 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 2019 and expected to attend continuing education courses in 2020. A total of 6,236 loggers and others completed LT&E programs and 20,666 attended at least one training session in 2019.

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 2019. Although some programs do not track the job classification of trainees, the programs that do track it report that 2,482 logging contractors, 1,736 logging employees, and 268 non-loggers completed their LT&E Program requirements in 2019. 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.

Jacob Minor
Forest Resources Association

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LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING SUMMARY (2019 ACTUALS – 2020 ESTIMATES)

State/Province	<u>Actual #</u> completing entire LT&E program in 2019	<u>Actual #</u> completing part of LT&E program in 2019	<u>Estimated #</u> to complete entire LT&E program in 2020	<u>Estimated #</u> to complete part of LT&E program in 2020
Alabama	103	2,684	100	2,300
Arkansas	145	927	160	1,240
Northern California	26	134	30	154
California	787	787	807	807
Central Rockies	114	131	110	120
Florida (1)	427	34	460	35
Georgia	110	570	140	556
Idaho	434	380	460	400
Indiana	0	165	0	175
Kentucky	184	555	160	600
Louisiana	72	829	72	829
Maine (2)	66	504	40	400
Maryland/Delaware	30	69	25	85
Michigan	101	1,261	120	1,260
Minnesota	468	583	475	590
Mississippi	208	505	150	700
Missouri	108	443	120	500
Montana	151	1,244	160	1,250
New Hampshire	N/A	590	300	300
New Mexico	87	87	100	100
New York	197	420	150	400
North Carolina (3)	65	1,512	102	1,575
Ohio	106	667	87	460
Oregon	612	700	620	700
Pennsylvania	89	581	90	500
South Carolina	109	N/A	80	1,050
Tennessee	37	331	45	340
Texas	78	443	60	581
Vermont	21	132	45	205
Virginia	82	1038	100	1,000
Washington	84	185	55	110
West Virginia	99	1121	90	750
Western Canada	958	N/A	1030	N/A
Wisconsin	78	1054	100	1,100
Totals	6,236	20,666	6,643	21,172

- 1 Partial totals correspond to two day master logger program
- 2 Partial totals correspond to resertification
- 3 Partial totals correspond to continuing education module

LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING SUMMARY (2019 ACTUALS)

State/Province	Actual Number Completing <u>Entire</u> LT&E Program in 2019				Actual Number Completing <u>Part</u> of LT&E Program in 2019			
	Logging Contractors	Logging Employees	Other	Total	Logging Contractors	Logging Employees	Other	Total
Alabama*				103				2,684
Arkansas	37	97	11	145	302	544	81	927
Northern California	26			26	30	104		134
California	157	630		787	157	630		787
Central Rockies*				114				131
Florida (1)		378	49	427		23	11	34
Georgia	29	46	35	110	243	122	205	570
Idaho*				434				380
Indiana*				0				165
Kentucky (2)		148	36	184		460	95	555
Louisiana		27	45	72		177	652	829
Maine (3)	0	61	5	66	63	425	16	504
Maryland/Delaware*				30				69
Michigan		101		101		1,261		1,261
Minnesota	391	68	9	468	19	495	69	583
Mississippi*				208				505
Missouri*				108				443
Montana	116	35		151	1244			1,244
New Hampshire*				N/A				590
New Mexico	87			87	87			87
New York*				197				420
North Carolina (4)	50	11	4	65	972	415	125	1,512
Ohio	50	56	0	106	25	26	616	667
Oregon	612			612	700			700
Pennsylvania	28	18	43	89	293	139	149	581
South Carolina*				109				N/A
Tennessee*				37				331
Texas		62	16	78		378	65	443
Vermont	20		1	21	120		12	132
Virginia*				82				1,038
Washington	41	33	10	84	93	72	20	185
West Virginia*				99				1,121
Western Canada	954		4	958				N/A
Wisconsin*				78				1,054
Totals	2,482	1,736	268	6,236	3,104	5,271	2,116	20,666

* Records do not indicate job classification

1 Partial totals correspond to two day master logger program

2 Logging contractors and employees the same category

3 Partial totals correspond to resertification

4 Partial totals correspond to continuing education module

ALABAMA Logger Training and Education Summary

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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 School of Forestry and Wildlife Sciences to teach modules of the Initial PLM training program, which consists of two days 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 two eight-hour 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. Session begins at 8:00 a.m. and ends at 3:30 p.m.

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, and logging business information and tools. Session begins at 8:00 a.m. and ends at 3:30 p.m.

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 and online continuing education.

**Training
Summary:**

Participants	Active PLM current cardholders	Actual Number Completing Initial PLM Training in 2019	Actual Number Attending At Least One Course in 2019	Est. Number Expected to Complete Initial PLM Training 2020	Estimated Number Expected to Attend Some Courses in 2020
Loggers, Foresters And Others	1 admin, 298 foresters, 456 logging employees, 615 logging owners, 153 other	103	2684	100	2300
TOTALS	1523	103	2684	100	2300

**1523 individuals met continuing education requirements & renewed PLM status for 2020, as of 02/18/2020; this number constantly changes as expired cardholders renew*

Production

Data: The annual production for PLM graduates is estimated to be 25,000,000 tons. Data was developed from production figures of Alabama SFI member companies.

**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
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 Little Rock, Arkansas 72227
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 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, 2019, attendance at ATPA workshops has been 54,061 in 1,360 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 \$173,491.05 in 2019. A total of 1,072 loggers and foresters received LT&E in 29 workshops in 2019. Twenty-eight workshops have been planned for Arkansas, Oklahoma, and Texas in 2020.

**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

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending at Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	37	302	40	540
Logging Employees	97	544	100	650
Other (Foresters)*	11	81	20	50
TOTALS	145	927	160	1240

**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: No on-line courses are offered at this time; however, we give CLE credit to loggers and foresters 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: lancmark@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.***

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 presentation 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. (Note: The Redwood Region Logging Conference was canceled this year because of the Corona Virus)

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	26	30	30	34
Logging Employees		104		120
Other				
TOTALS	26	134	30	154

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,"* and are working on more.

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 745
 Sacramento, California 95814
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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:

<u>Best Operating Practices</u> 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	<u>Business Practices</u> 1) Costs, job analysis and successful bidding 2) Independent contractor status 3) Managing your business to survive and prosper
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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:

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

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	157	157	162	167
Logging Employees	630	630	640	640
Other				
TOTALS	787	787	807	807

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 2019.

Training Records

Location: Can contact the following to obtain information on credits: ecarleson@calog.com, jpardee@calog.com, or kprice@calog.com.

**CENTRAL ROCKIES
(COLORADO, WYOMING, SOUTH DAKOTA)
Logger Training and Education Summary**

Contact: **Ben Wudtke**
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 Rapid City, SD 57702
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 Fax: (605) 341-8651
 Email: 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
Logging Incidents: What is Happening Nationally?	.5 hours
OSHA Citations and Inspection Procedures: What You Need to Know	1.5 hours
South Dakota BMPs	1.0 hours
Water Quality in the Black Hills Region	1.0 hours
Northern Long Eared Bat in the Black Hills	1.5 hours
Managing Habitat for Avian Species of the Black Hills	1.0 hours
Mountain Pine Beetles and Pollinator Habitat:	
Updates on Two Current Research Projects	1.0 hours
First Aid (as required by OSHA) (acquired locally)	6.0 hours
(acquired locally)	
Total	13.5 hours

Colorado

Day 1

CMCA – DOT Safety and Compliance Essentials	1.5 hours
Equipment Demonstration	.5 hours
OSHA Safety – John Olachea	1 hour
RMRI – Moving to Landscape Level – Tom Spezze	.5 hours

Day 2

Colorado's Insects and Disease	1 hour
Colorado BMP's	1 hour
Equipment Demonstration	.5 hour
SBEADMR – AMG/Science	1 hour
Tier 4 Emissions	1.5 hours
First Aid (as required by OSHA) (acquired locally)	6.0 hours
Total	14.5 hours

**Training
Summary:**

1. Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	31 – Colorado	46 – Colorado	110 – Total	120 – Total
Logging Employees	83 – Black Hills 114 – Total	85 – Back Hills 131 – Total		
TOTALS*	114	131	110	120

**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 2019.

Training

Records

Location: 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: **Laura Bosworth**
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Email: Laura@ForestFla.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 Chem. Florida Highway Patrol – trucking regulations, Spill Prevention, Image, Public Relations, Working with People.

The 2020 Basic Four Hour Continuing Education courses includes Risk Aversion & Risk Management, Best Management Practices, Reducing Wildfire Risk during Harvests, Value of Certification and Public Image, and Logger Driving Regulations (FL Highway Patrol).

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program (Master Logger) in 2019	Actual Number Attending Basic two-day Master Logger in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend 2-Day M.L. in 2020
Loggers	378	23	400	25
Non-Loggers	49	11	60	10
TOTALS	427	34	460	35

Program

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

Program

Revision: As of February 6, 2018, the FSFI-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 will provide 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.

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) A two-day GA-MTH introductory workshop, provided directly by the program office
- 2) Requirements for Continuing Logger Education (CLE), offered from a network of continuing education providers

Current Training Available:

Georgia Master Timber Harvester Introductory Workshop - The two-day GA-MTH introductory workshop is designed to address the logger education requirements of the Sustainable Forestry Initiative® (SFI®) Program. The workshop 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.

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 GA-MTH introductory workshop, GA-MTH active status is effective for a period of two (2) years. Eight (8) hours of CLE are required to renew GA-

MTH status. A minimum of two (2) of the eight required hours must include Georgia CLE Category A credit hours, which encompasses forestry BMP content. The remaining eight 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 2019	Estimated* Number Attending At Least One Qualifying Course in 2019	Estimated Number Expected to Enter LT&E Program in 2020	Estimated** Number Expected to Attend Some Qualifying Courses in 2020
Logging Contractors	29	243	50	273
Logging Employees	46	122	52	111
Other	35	205	38	172
TOTALS	110	570	140	556

**Based on GA-MTH 2019 renewals and reinstatements.*

***Based on 2020 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 2019.

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: Linda Murphy, Office Manager
Associated Logging Contractors, Inc.
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 Coeur d'Alene, Idaho 83814
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 Email: alc@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 24 credit hours in:

- First aid training as required in the OSHA regulations and
- Completion of a 3-day LEAP 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. In addition, all employees and the owner/contractor must maintain OSHA-required first aid certification.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	434	380	460	400
Logging Employees				
Other				
TOTALS *	434	380	460	400

**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, advisors 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 2019.

Training

Records

Location: www.idahologgers.com or contact the ALC: alc@idahologgers.com

INDIANA
Logger Training and Education Summary

Contact: **Duane McCoy**
IDNR Forestry
 402 W Washington 296W
 Indianapolis, IN 46204
 Phone: (317) 232-4112
 Fax: (317) 233-3863
 Email: dmccoy@dnr.IN.gov

Program Name: **Indiana Logger Training**
 Indiana's LT&E program is a volunteer program and utilizes the Safety and Woods Worker (SAWW) training curriculum (<http://www.sawwtraining.com/index.html>). The Indiana Division of Forestry and Indiana Hardwood Lumbermen's Association work hand in hand to coordinate the training. The "core curriculum" is listed below:

Courses: Cutter Training – Levels 1-4

Storm Damage Cutter Training

Skidder Training – Level 1

Utilization Training

Best Management Practices (1 day – 50% outdoors)

Indiana continues to expand the scale of its BMP Training and Monitoring course. A cost-share program has been developed to provide incentives and BMP information to loggers and to defray some of their BMP implementation costs.

Introduction to SFI, Silviculture, Wildlife, etc. (1day- 50% outdoors)

Other: First Aid & CPR training are the loggers' responsibility.

Note: All Indiana State Forest timber sales and Certified Classified Forests now require that at least one person (timber buyer, supervisor, or crew member) be on site while it is active and have the minimum of Level 1 Cutter Training and also Introduction to BMPs.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
	0	165	0	175
TOTALS	0	165*	0	175*

**Records do not indicate job classification.*

Production

Data: Not Available.

Program

Funding: A BMP training grant from the USFS will be funding some portions of the training beginning in 2016 and ending in March 2020. The program is expanding the training program in the area of BMPs and other positive impacts of harvesting. Otherwise, training costs are commonly paid by attendees or their company.

Training

Modules: No on-line training modules have been developed.

**Training
Records**

Location: IN DNR Division of Forestry website:
<http://www.in.gov/ForestryExchange/INForestryX/FindaTrainedLogger.aspx>

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/Fax: (859) 257-6230
 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.

Eight 3-day KML programs are scheduled at eight regional training sites during 2020. 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 Mark Schuster, Kentucky Division of Forestry Program Specialist 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 8,432 individuals have graduated since the KML program began in 1992 (256 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 12 continuing education classes scheduled throughout 2020 by the Kentucky Master Logger (KML) office so that loggers can attain the six CEC's required to maintain their KML status. In addition, University of Kentucky Forestry Extension is conducting four

Webinar Series Programs along with three Woodland Owners Short Courses that individuals can attend to receive KML CE credits. 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:

	3-Day KML Program	3-Day KML + CEU	3-Day KML Program	3-Day KML + CEU
Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors and Employees	148	460	130	545
Landowners	15	40	15	25
Govt. Employees	10	35	10	20
Other	11	20	5	10
TOTALS	184	555	160	600

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 must attend at the local Cooperative Extension Service Office to receive KML CE credit.

**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**
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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 Louisiana 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 compliance demonstrates both the effectiveness and the importance of the Louisiana Master Logger Core Training Program.

Production

Data: An estimated total of 25.5 million tons of wood was produced for Louisiana mills in 2019. An estimated 24.5 million tons were produced by fully trained logging contractors.

Training Summary:

Participants	Actual Number Completing Master Logger Core Training Program in 2019	Actual Number Attending At Least One Continuing Education Course in 2019	Estimated Number Completing Master Logger Core Training Program in 2020	Estimated Number Expected to Attend Continuing Education Courses in 2020
Business Owners	23	395	23	395
Employees	27	177	27	177
Foresters	19	227	19	227
Other	3	30	3	30
TOTALS	72	829	72	829

Continuing

Education: In 2019, we finished up with four forestry forums, Cenla, NW, SW, and Florida Parishes, with 88 in attendance.

Chapter meetings – 88 meetings were held with 489 in total attendance.

The main emphasis in 2019 was Team Safe Trucking and Business Management training for all LA Loggers and Foresters. The Team Safe Trucking Module 1 & 2 was presented in the 7 logging chapters throughout the state. Business Management was presented in the Fall of the year for our Continuing Education training. This training was taught through the Louisiana Logging Council with trained representatives (CPA's, a Banker, and an Attorney) in the state. Approximately 489 people were trained.

In 2020, our plans for continuing education will be focused on TEAM Safe Trucking and new regulation requirements with State Police (DOTD) and Workers Comp Management for all Louisiana Loggers and Foresters.

Training**Modules:**

No online training modules were developed or offered in 2019.

MAINE
Logger Training and Education Summary

Contact: **Mike St. Peter, CLP Director**
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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 59% 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 (32 hours total) and then pass a 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. Evaluators interview and observe 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 five 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, 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 2019)		Total Trained	Projected Training 2020	
Participants	Active CLPs	Certification	Recertification	Since 1991	Certification	Recertification
Logging Contractors	118	0	63	665	0	30
Logging Employees						
• Mechanical	709	38	341	2,659	30	275
• Conventional	156	23	84	2,831	5	75
Others	56	5	16	549	5	20
Total	1039	66	504	6704	40	400

Training Records

Location: <http://www.clploggers.com/search.php>

MARYLAND / DELAWARE
Logger Training and Education Summary

Contacts: Robert Beale, MD-DE Master Logger Steering Committee, Chairman

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Agnes Kedmenecz, MD-DE Master Logger, Program Coordinator

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 Queenstown, MD 21658
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 Fax: (410) 827-9039
 Email: akedmen@umd.edu

Jim 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
 Phone: (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. A UME educator administers the program under the direction of the MD-DE Master Logger Steering Committee.

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 to become an active MD-DE Master Logger. All core courses are generally delivered on demand by distance-learning formatted materials. The core program contains the following topics:

Sustainable Forestry Core (12 contacts hours)

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

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

Sustainable Forest Management II: Forest Ecology and Silviculture; Forest Certification (4 hours)

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

Sustainable Forestry III: Endangered Species; Logger Activism (4 hours)

- 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 (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:

Participants must complete 8 hours of continuing education courses every two years in order to maintain their active status in the program. Maryland offered the following continuing education courses in 2019:

- *Permits, permits, permits* at the St Mary's Soil conservation office and the Johnson Farm in Southern MD (Fall 2019)

- *The DELMARVA Forestry Seminar*, at WorWic College and the Delaware Wild Lands in Eastern, MD (Fall 2019)
- The MD-DE Master Logger core courses in Western MD (Spring 2019)
- The MD-DE Master Logger core courses in Eastern MD (Fall 2019)
- A one hour (1 Continuing education credit) MDA Forest Pest Management video with quiz on our YouTube Channel

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, and Sustainable Forestry III classes for CE credit.

Courses scheduled for 2020:

The four MD-DE Master Logger Core Courses are offered through distance learning by CD, flash drive and online through ELMS (the UME online learning portal).

The core courses will also be offered face to face in Western MD & Central MD during the spring of 2020.

The continuing education credits (CEC) that will be offered in 2020:

Region in MD-DE	Type of CEC
Southern MD	Chainsaw Maintenance Game of Logging Logger Safety checklist
Western MD	Permit writing
Central MD	Permit writing
Eastern MD-DE	Department of Transportation-Hauling safety

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020

Logging Contractors	30	69	25	85
Logging Employees				
Other				
TOTALS	30*	69*	25*	85*

**Records do not indicate job classification.*

Production

Data: Not Available.

Program

Funding: Funding for the program is currently provided primarily by assessments of SFI participating companies and grants from Maryland and Delaware Forest Services. Course fees also support program costs.

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, PennForest Connect, the Virginia Sharp Logger program or other programs.
2. Live workshops offered by UME once or twice a year in locations across the State.
3. Supporting agencies such as the Forest Service, University of Delaware Extension services and others that offer relevant education events.

Training

Records

Location: SFI members and MD-DE Master Logger program participants can access participant training records by contacting Agnes Kedmenecz at akedman@umd.edu or by calling (410) 837-8056 x125.

MICHIGAN

Logger Training and Education Summary

Contact: **Scott Robbins**
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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 the 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 logger education program here in Michigan.

The Michigan SFI Implementation Committee currently facilitates the 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 others.

Recap of Michigan SFE Logger Education in 2019

In 2019, the majority of logger education training was concentrated into two discrete blocks of time over the calendar year (instead of year-round). That period roughly corresponds to spring and fall. These two-time periods seem best in Michigan to facilitate attendance by loggers – especially during spring break-up or wet season of the calendar year. In addition, this schedule is designed to conclude training early enough in the fall to determine who had not completed their continuing education requirements for the year. In 2019, there were 35 SFE Continuing Education (CE) training programs and 5 Core Training programs offered across Michigan. The MI SFI Implementation Committee was the primary provider of SFE training. There were 1261 participants in continuing education programs in 2019. There were 101 participants in the core training programs in Michigan in 2019.

Training opportunities included safety, log scaling and grading, timber cruising and spring logger meetings are also available for obtaining MI SFI SFE training credits. It should also 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 course of 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 Wisconsin as well.

The Michigan SFI IC tracks logger training and is the administrator of the database. There was a total of 36 classes offered and 208 credit hours available for SFE training in MI counting all continuing education and core classes. Each segment of the core training is available for continuing education credits. There were 5 core training with each having 4 segments for 80 hours of credit available.

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 the QLP status. However, once a logging professional completes the Core training program and becomes a QLP, they are also required to complete 4 hours of continuing education annually. Loggers can choose which continuing education options that they wish to attend.

The MI SFI SFE Core Logger Education Training Program is composed of four workshop 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 hours) 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. In Michigan, each logging company is required to

designate key field personnel to complete the MI SFE Core Training Program and become QLPs. Our goal is to have at a minimum at least one trained person for each logging crew. A logging crew consists of a cutter and skidder. In addition to this each QLP must complete *4 hours of CE annually*.

Following is a list of training options that were offered as Continuing Education programs by MFPC and others for the 2018 calendar year:

- a. Awareness of *sustainable forestry principles* and the *SFI* program; 6 times through core training
- b. *Best management practices*, including streamside management and road construction, maintenance and retirement; 6 times through core training, 3 times through MI SFI sponsored CE classes
- c. *Reforestation, invasive exotic plants and animals, forest resource conservation, aesthetics and special sites*; 7 times in CE classes
- d. Awareness of responsibilities under the U.S. Endangered Species Act, the Canadian Species at Risk Act and other measures to protect *wildlife habitat* (e.g., *Forests with Exceptional Conservation Value*); 6 times in core training and 2 CE classes
- e. Awareness of rare forested natural communities as identifies by provincial or state agencies, or by credible organizations such as NatureServe, The Nature Conservancy, etc. 6 times in core training and 3 CE classes
- f. Logging safety; 6 times in core training, plus several by MAT-SIF
- g. U.S. Occupational Safety and Health Administration (OSHA) and Canadian Centre for Occupational Health and Safety (CCOHS) regulations, wage and hour rules, and other provincial, state and local employment laws; 6 times in core training
- h. Transportation issues; 3 times in CE classes
- i. Business management; 4 times in CE classes
- j. Public policy and outreach; 6 times in core training
- k. Awareness of emerging technologies; 3 times in CE classes

(Additional Note: Time of day that these programs are offered varies; most are now 4-hour time slots in the morning, afternoon or evening during the work-week. While a few others are day-long 8-hour sessions. A mix of time slots and locations are offered to enable loggers to choose what best suits their individual needs and/or operation.)

Summary: Approximately 1362 loggers and foresters participated in the MI SFE CE training program in 2019 and 101 participated in core training programs.

**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 all the SFE Core Training Programs (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 2019 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 2020.

MINNESOTA

Logger Training and Education Summary

Contact: **Rachel Peterson, Executive Director Minnesota Logger Education Program (MLEP)**
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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 - Final December 19, 2018.

The 2015-2019 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 and 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 2015-2019 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 2015-2019 Fiber Sourcing Standard

Logger Certification:

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 2015-2019 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>
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 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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	391	19	390	40
Logging Employees	68	495	65	525
Natural Resource Mgr	9	69	20	25
TOTALS	468	583	475	590

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: **Mr. John B. Auel**
MS Professional Logging Manager Coordinator
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 Mississippi State, Mississippi 39762-9681
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Program

Name: **Mississippi Professional Logging Manager Program**

The Mississippi Implementation Committee for SFI (MIC) and the Mississippi State University Extension Service have developed 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, MSU Extension Service and registration fees. The MIC provides funds for the administrative assistant position, database maintenance and mailings. MSU Extension 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 2019, 208 individuals attended one or more of the core set of classes. An additional 505¹ individuals or companies 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, 2020).

Other: During 2020, we will continue to offer all four core workshops as well as continuing education programs.

Training

¹ This number includes attendance at the Mid-South Forestry Equipment Show, a biennial event held at Mississippi State University. Individuals can complete all required hours at this show.

Summary:

Participants	Actual Number Completing 1 or both Core Classes for PLM Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Number of individuals	208	505	150	700
TOTALS	208	505 ²	150	700 ³

1Total individuals completing core program plus 12 hours of continuing education

2Total individuals participating in PLM programs. Another 500 or so submit hours from approved courses not taught by PLM.

3Continuing Education programs are offered at the Mid-South Forestry Equipment Show which has an attendance of over 6,000 people. Typically, about 400 loggers earn credits at the show.

Number of Individuals who are Qualified Logging Professionals - 1683

Number of Qualified Logging Companies – 1,034

Production

Data: Accurate production figures are not available. Severance tax records are used to estimate total state production which is about 30 MM Tons.
It is estimated that over 90% of total production is delivered by PLM Loggers.

Training

Modules: No online training modules were developed or offered in 2019. The preferred method is in-person and on-line courses will not be developed in the near future.

Training**Records**

Location: The PLM website contains all training information. <http://logged.msstate.edu/>

MISSOURI
Logger Training and Education Summary

Contact: **Mark McCarthy**
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 Website: www.moforest.org

The Missouri Forest Products Association (MFPA) sponsors the voluntary logger training and education program in the state of Missouri. In addition to the Board of Directors, a separate Education Committee, composed of twenty members representing logging, industry, landowners, consulting foresters, the state forester's office, and the university extension office oversees the program.

Program

Name: **Professional Timber Harvester (PTH) Program** includes:

1. Four 8-hour hands-on sessions which emphasize safety, cutting and felling techniques and proper equipment maintenance.
2. One 8-hour forest management session emphasizing the implementation of BMPs.

Missouri's PTH Program continues to have Joe Glenn as the instructor for the hands-on sessions that teach "SAWW (Safety And Woods Workers) techniques to our loggers. Currently, there are almost 600 loggers who have completed and maintained current status by completing the annual CE requirement.

A certificate of completion is issued which expires annually. An average of 80 participants complete this track each year.

**Continuing
Education:**

We require one mandatory session each year. Classes we conduct include BMP Workshop, Forest Management & Silviculture, Wilderness First Responder, Advanced Skidder Training, and In- Woods Logging Demonstration and Logger Workshop. Loggers can also submit approval for classes conducted outside our curriculum.

**Program
Funding:**

The PTH Program is partially funded by the registration fees paid by participants. The 5-day core program cost is \$175 for non-MFPA members, \$155 for members. In addition, the Missouri Department of Conservation (MDC) provides an annual grant of \$80,000 and requires that all loggers who bid on State timber sales must be PTH Program certified.

Other: Logging Competition: Annual education competition to evaluate loggers' skills, to introduce new techniques, and to provide a competition to showcase logger training.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors Logging Employees Other	(PTH TRAINED THAT YEAR)	(PTH CERTIFIED)		
TOTALS*	108	443	120	500

**Job classification was not provided.*

Production

Data: Not available.

Training

Modules: Four DVD's (The Cutting Edge of Safety, Coaching the Professional Logger, Best Management Practices for the Professional Logger, and Woodyard Safety) which included a short test were provided to loggers unable to attend "live" training in 2019.

Online training modules are being offered through the MFPA website (Forest Management, Silviculture, Dendrology, and How To Build A Waterbar).

Training

Records

Location: mark@moforest.org

MONTANA
Logger Training and Education Summary

Contact: **Coleen Michael,**
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Program
Name: **Accredited Logging Professionals**

Logger training in Montana began in 1994 when the MLA established Montana's "Accredited Logging Professional" (ALP) Program. As of January 2020, the program lists 151 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.

Montana SIC-approved SFI® Logger Training Standards

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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	116	1244	120	1250
Logging Employees	35		40	
Other				
TOTALS	151	1244	160	1250

** Records do not indicate job classification.*

Production

Data: MLA estimates that 70% of the 450 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: No online training modules were developed or offered in 2019.

Training

Records

Location: 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**
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 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, UNH's 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 two-year period. The NH Timber Harvesting Council now 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 management
- 4) Basics of wildlife management

Safe and Productive Felling

- 1) OSHA guidelines
- 2) Safety apparel
- 3) Safe saw handling
- 4) Open face felling

Timber Harvesting Law

- 1) Applicable state laws and taxation
- 2) State BMPs
- 3) Wetlands Identification

First Aid and CPR

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

Note: For truckers, a Safe Trucking course is added, substituting for Safe and Productive Felling. For mechanized logging contractors, the Mechanized Harvesting class can be substituted 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 Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020**	Estimated Number Expected to Attend Some Courses in 2020**
TOTALS	590	300	300

**This is an estimate. Due to COVID-19 all PLP workshops scheduled for the spring of 2020 were postponed to autumn 2020. It is still unclear if in-person workshops will be allowed.

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 MEXICO
Logger Training and Education Summary

Contact: **Dee Tarr,**
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Santa Fe, New Mexico 87594
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Email: dee.tarr0505@gmail.com

Program

Name: **Forest Worker Safety Certification (FWSC) Training Program**

The purpose of the FWSC Training Program is to develop, support and provide a course curriculum to improve knowledge and implementation of safe forestry practices in New Mexico. The FWSC curriculum is designed for loggers and thinners. The curriculum is approved by the New Mexico Division of Insurance and Workers' Compensation Administration. Successful graduates are entitled to reduced Workers' Compensation insurance premiums. First time participants take a three-day course. An annual one-day re-certification is required in order to maintain reduced insurance premiums.

Required

Courses: Description Classroom/Lecture/Discussion/Field

Full-certification (first time)

Dynamics of Southwestern Forests	1.5 hours
Safety Requirements	5 hours
Chain Saw Maintenance and Operations	3.5 hours
Chain Saw Tasks and Techniques	4 hours
Hazardous Materials: Awareness and Mitigation	1.5 hours
Logging Equipment and Transportation Safety	3 hours
Field Demonstration	3 hours
Final Exam	1 hours
Forest Worker First Aid/CPR	8 hours
	<i>Completed in three days</i>

Re-certification (annual renewal)

Forest Worker First Aid/CPR	4 hours
Field Demonstration	4 hours
	<i>Completed in one day</i>

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Submitting Renewal Credits in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Renewal Courses in 2020
Logging Contractors	87	87	100	100
Logging Employees				
Other				
TOTALS*	87	87	100	100

**Records do not indicate job classification*

Program**Funding:**

Funding for the FWSC comes from a combination of sources including:

- NM State Legislature
- Grants
- Participant contributions
- In-kind donations

Training**Modules:**

No online training modules were developed or offered in 2019. Currently looking for funding to purchase equipment to train participants on how to operate feller bunchers, skidders etc.

Training**Records****Location:**

Dierdre Tarr is the keeper of the records for training classes. Her email is deetarr@yahoo.com

NEW YORK
Logger Training and Education Summary

Contact: **Muriel Church**
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 Rensselaer, New York 12144
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 Website: www.newyorkloggertraining.org
 Email: mchurch@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™ 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 \$20 for students to apply for NYLT TLC will be charged.

Other:

Certification is valid for three years. Three 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
- Over 40 on line workshops available through our webpage

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:

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
2017	158	586	--	--
2018	161	456	--	--
2019	197	420	--	--
2020	--	--	150	400

**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.*

Training Records Location:

Information on certified loggers can be found at:

<http://www.newyorkloggertraining.org/Home/CertifiedLoggers>

NORTH CAROLINA
Logger Training and Education Summary

Contact: **Jack Swanner**
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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. 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 2019	Actual Number Attending Ed Module Course in 2019	Estimated Number Expected to Complete Base Program in 2020	Estimated Number Expected to Attend Continuing Ed Module in 2020
Logging Contractors	50	972	60	1077
Logging Employees	11	415	40	348
Other	4	125	2	150
*TOTALS	65	1512	102	1575

** 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 1,512 ProLoggers who have met the requirements for the 2018-2019 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.

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:

We do not have online training developed for North Carolina.

**Training
Records**

Location:

Accessible to NCFA/ProLogger member companies—login required. For more details on access, contact Justin Faircloth.

OHIO
Logger Training and Education Summary

Contact: **Gayla Fleming**
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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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	50	25	40	30
Logging Employees	56	26	47	30
Other	0	616	0	400
TOTALS	106*	667	87	460

** Completed full certification or re-certification of program*

***Currently, there are 140 Ohio Master Logging companies and 194 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

Logger Training and Education Summary

Contact: Rex Storm, Forest Policy Manager

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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.

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, 2019, 612 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 2019.

**Training
Summary:**

Participants	2/ Actual Number Completing Entire LT&E Program in 2019	3/ Actual Number Attending At Least One Course in 2019	2/ Estimated Number Expected to Complete LT&E Program in 2020	3/ Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors Logging Employees Other	612 4946	700 6000	620 5000	700 6000
1/ COMPANY TOTALS	612	700	620	700

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 23-year history of the OPL, the SFI-Oregon Implementation Committee has contributed about \$70,000 to support AOL administration of the OPL program.

Training**Modules:**

No online training modules were developed or offered in 2019.

Training**Records****Location:**

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**
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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 sub-committee of the Pennsylvania Forest Products Association (PFPA).

The PA SIC administers the program's training policies, develops course curriculum, schedules and delivers workshops 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.sfiopa.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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	28	293	40	250
Logging Employees	18	139	30	150
Other*	43	149	20	100
TOTALS	89	581	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 2019 the PA SIC conducted 52 training programs (25 core and 27 CE), through which 587 individuals completed 725 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 342 additional training units completed by 172 individuals (84 additional) through approved outside training opportunities. At the end of 2019, Pennsylvania had 833 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. 2017 US Department of Labor data for Pennsylvania indicates there are 1,792 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 (833 at the end of 2019). As previously mentioned, DCNR, SFI Program Participants, and others have requirements to use SFI Qualified Logging Professionals.

On-Line Training Modules:

The PA SIC does not currently offer online CE courses. However, 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 utilizing online logger training courses in the future; however, a primary concern is legitimate verification of participant identity.

Training Records Location:

www.sfiopa.org/search.

SOUTH CAROLINA Logger Training and Education Summary

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Program

Name: **South Carolina Timber Operations Professional (TOP) Program**

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 2-Day 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 2-day 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 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-2 Day course is an intensive two-day training program that was offered two times in Columbia, SC with 82 graduates in 2019. An additional 27 students met TOP requirements through required coursework. The primary topics covered in the TOP 2-day course are:

- Forest Resource Conservation
- Introduction to SFI and the Standards
- Safety/OSHA Regulations
- Trucking & Transportation Issues
- Soil Operability
- Emerging Technology
- Controlling/Avoiding Risks in a Logging Operation

Timber Security
 Advocacy – Public Policy & Outreach
 Invasive Species
 Business – Coaching the Professional Logger
 Best Management Practices

Instructors for the TOP 2-Day 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 3,698 graduates of the TOP Program. In 2019 SC had 1,095 individuals on the TOP Trained List and the 2019 TOP Update continuing education program was viewed by more than 930 people.

**Training
Summary:**

Participants*	Actual Number Completing Entire LT&E Program in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors Logging Employees Wood buyers/dealers Forest Industry			
TOTALS	109*	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 2-day class is \$200, and the annual registration fee is \$80.

Training

Modules: The 2020 TOP Update Facilitators Guides is available for purchase from the Forestry Association of SC for \$50 at www.scforestry.org. No online training modules have been developed or offered.

2020 TOP Update Topics:

- Transporting Equipment Safely and Legally
- Using Bridge Mats on Forest Roads
- Roundabout Truck Aprons
- Know Your Boundaries

**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**
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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 will show 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.

**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.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors Logging Employees Or Other				
TOTALS	37*	331**	45*	340**

**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, Assistant Director
Texas Forestry Association
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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/>

NEW: Based on the results of the new (Round 10) BMP Compliance Report, Texas Forestry Association's SFI Committee has determined that all Texas Pro Loggers must attend a LIVE six-hour CEU in BMP's for forest roads and stream crossings (including firebreaks) in either 2020 or 2021.

**Training
Summary:**

Participants	Actual Number <u>Completing</u> <u>Entire</u> LT&E Program in 2019	Actual Number Attending At Least One Core Course in 2019	Actual Number Attending At Least One Continuing Ed Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020**
Loggers	62	0	378	50	490
*Other	16	0	65	10	91
TOTALS	78	0	443	60	581

**Other – consists mainly of industry procurement foresters; some other timber buyers.*

***Includes CEU*

Production: In 2018, 457.4 million cubic feet of pine and 82.9 million cubic feet of hardwood were harvested in Texas for industrial consumption, an increase 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 2019.

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> - we are in the process of purging older records.

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.

Required

Courses: The Vermont LEAP Program is working with the State to implement a Workers' Compensation Safety Program that will reduce the cost of WC by 15%. All loggers will take the following two workshops:

Managing and Using Forest Ecosystems
Professionalism in Forestry

Our Primary Curriculum has been updated to add two tracks of Safety Workshops depending on the operation:

Mechanized Logging Contractors will take:
Mechanized Safety & Advanced Logger Safety

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

Completion of the primary curriculum leads to provisional certification that meets the minimum requirements of Vermont's Sustainable Forestry Initiative. A Logger must also complete a secondary curriculum within 2 years to achieve full certification with LEAP. The secondary curriculum consists of three day-long workshops, one of which is First Aid for Loggers

The other workshops are considered 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](#)

Continuing Education

Program: To maintain full certification a logger is required to participate in two days of related continuing education or public service, within two years of completing the secondary curriculum and every two years thereafter. It is also necessary to maintain First Aid and CPR Certifications. We are allowing Loggers to challenge the FA & CPR course vs. repeating the whole day every two years.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors & Employees	20	120	40	180
Others, Foresters & Landowners	1	12	5	25
TOTALS	21	132	45	205

Production

Data: Very much 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 has generously budgeted for this 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.

Online**Training**

Modules: (No online training modules are used or have been developed)

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: SHARPllogger@vt.edu
 Website: www.SHARPllogger.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 InitiativeSM, 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 SFISM 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: SHARP Loggers must earn 12 hours of Continuing Education (CE) credits every three years in order to maintain current SHARP Logger status. At least 3 CE credits must come from

the required SHARP Logger Update. The SHARP logger update is only offered as a “face to face” class and cannot be completed online. Continuing Education programs include:

SHARP Logger Update Classes

Legal Issues for Logging Businesses

Sustainable Forestry Workshops

Safety Workshops

Log and Lumber Grading Workshop

Gypsy Moth & Emerald Ash Borer Compliance Workshops

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
TOTALS	82	1038	100	1000

Production

Data: Not Available.

Other: SHARP Logger Newsletter sent out quarterly by Virginia Tech Forestry Extension. www.virginiaSFI.org offers a description of the Virginia SFISM 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: In 2009, the SHARP Logger program offered its first online training opportunity with two online trainings. The response from loggers completing the training was very positive, and additional online modules were developed. Online trainings are accessed through the SHARP Logger website at www.SHARPllogger.vt.edu 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: Viewers simply click on a link and the training module will start automatically.

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

**Training
Records**

Location: Virginia's SHARP Logger Program information, including training records of individuals, may be found at www.SHARPllogger.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 12-31-19 a total of 1062 individuals representing about 505 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 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

5. 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 2019, WCLA trained about 991 loggers in first aid, and provided safety training to over 850 employees.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	41	93	20	50
Logging Employees	33	72	30	50
Other	10	20	5	10
TOTALS	84	185	55	110

Production

Data: 2.5 billion board feet produced by Master Loggers in 2019.

Program

Funding: Each module costs each attendee \$35 if they are a WCLA member, \$120 if they are not. The Washington SFI State Implementation Committee donated \$5000 in 2018 to support logger training. Companies with MasterLoggers 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.

Training

Modules: No online training modules were developed or offered in 2019.

**Training
Records**

Location: <http://63.134.238.39/MLPList.asp>

WEST VIRGINIA

Logger Training and Education Summary

Contact: **Eric Carlson**
West Virginia Forestry Association
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 Charleston, West Virginia 25311
 Phone: (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.

Required

Courses: First Aid Training - Conducted by West Virginia Forestry Association Safety Committee in various areas of the state according to need. Cost is \$45 to \$55 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.

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
 - Topographic Map Reading
 - Impacts of Soil Types
 - Positive and negative control points to use or avoid
3. Safety
 - Chainsaw and Tree Felling
 - Equipment
 - 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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors/ Logging Employees Others/Foresters				
TOTALS	99*	1121*	90*	750*

** Records do not indicate job classification. 99 individuals gained logger certification for the first time. The 1121 completing one course represents 277 individuals that completed the chainsaw safety only course and the remainder completing the Best Management Practices for Loggers Workshops and possibly also the chainsaw safety training. The WVDOF has a total of 1188 active Certified Loggers during 2019.*

Production

Data: Not Available.

Program

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

Training

Modules: The WVDOT, 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 have resulted in legislation being passed in 2019 adopting 6-credit hour training requirement every two 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 WVDOT and sign in rosters need to be submitted to the WVDOT. SAF approved courses are recognized by the DOT. Efforts will continue in 2020 to develop training modules 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 2019	Actual Number Attending At Least One Course in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020
Logging Contractors	954		1000	
Logging Employees				
Foresters				
Landowners				
Government Officials				
Students				
Other	4		30	
*TOTALS	958		1030	

* Combined totals

WISCONSIN
Logger Training and Education Summary

Contact: **Forest Industry Safety & Training Alliance, Inc (FISTA)**
Kim Webb, Office Coordinator
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Rhineland, WI 54501
Phone: (800) 551-2656
Fax: (715) 282-7987
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 decided to keep the requirements for the 2020 SFI® Training Standard consistent with 2019. A person wishing to become SFI® certified must complete two days of Core Training, consisting of 8 hours of BMP's for Water Quality and 8 hours of BMP's for Invasive Species, 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
Workshops (8 hours)**

These workshops address planning, timber harvesting, forest road design and location, wetland and stream crossing, riparian management zones, and permitting.

**BMP for Invasive Species
Workshops (8 hours)**

This workshop enables loggers and other forestry-related personnel to identify non-native invasive species posing a threat to forest ecosystems and productivity as well as

helping these individuals understand the important role they play in slowing the spread of these invaders

Continuing Education Workshops (4 hours)

In 2019, FISTA organized 48 (4hr) C.E. workshops with attendance totaling 1,054.

Currently for 2020, there are 40 (4hr) C.E classes to be held in various locations around the state. The workshops schedule is as followed:

<u>Workshop Name</u>	<u># Held in 2019</u>	<u>Scheduled for 2020</u>
BMP's for Water Quality	5	5
BMP's for Invasive Species	5	5
Chainsaw Safety	1	-
D.O.T. Compliance	2	2
Current Hot Topics in Forestry	2	1
Chainsaw Safety Refresher	-	2
Hydraulic Safety	3	2
OSHA for Loggers	2	1
Pesticide Applicator Training & Exam	2	1
QuickBooks	1	-
Silviculture & Timber Sale Marking	2	2
Successioning Your Business	2	2
Timber Economics	2	2
1st Aid / CPR	2	2
Harvester Bar & Chains	2	1
User's Beware	1	-
Tire Maintenance & Safety	2	2
Mechanized Training	2	3
Wilderness Rescue	2	-
Chemical Spills on Logging Operations	-	1
Oak Wilt ID & Management	2	2
Cross Training for Loggers & Foresters	2	2
Timber Cruising	2	2
Log Scaling & Grading	2	2
Insurance Basics for Forest Products Businesses	2	2
Forest Fire Safety	3	2
Adapting to Climate Changes	2	2
HRD ID & Management	1	-
Water Quality Refresher	-	2

**Training
Summary:**

Participants	Actual Number Completing Entire Beginning LT&E Program in 2019	Actual Number Attending At Least One Course in 2019	Actual Number Attending Approved Electives in 2019	Estimated Number Expected to Complete LT&E Program in 2020	Estimated Number Expected to Attend Some Courses in 2020	Estimated Number Expected to Attend Approved Electives in 2020
Logging						
Contractors						
Logging						
Employers						
Other						
TOTALS	78	1054	488	100	1100	650

* Records do not 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 currently has options via webinars & approved electives. Online classes are being developed at this time.