

**Report on the
Status of Logger Training and Education (LT&E) Programs
in 34 Forested U.S. States & 6 Canadian Provinces**

2015 Actuals – 2016 Estimates



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Compiled by



June 1, 2016



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FOREWORD

This *Report on the Status of Logger Training and Education (LT&E) Programs in 34 Forested U.S. States & 6 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 2015 and expected to attend continuing education courses in 2016. A total of 10,137 loggers and others completed LT&E programs and 23,790 attended at least one training session in 2015.

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 2015. Although some programs do not track the job classification of trainees, the programs that do track it report that 3,426 logging contractors, 3,127 logging employees, and 1,806 non-loggers completed their LT&E Program requirements in 2015. 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.

Diane Rossi and Connor Stemple
Forest Resources Association

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**LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING SUMMARY
(2015 ACTUALS – 2016 ESTIMATES)**

State/Province	Actual # completing entire LT&E program in 2015	Actual # completing part of Lt&E program in 2015	Estimated # to complete entire LT&E program in 2016	Estimated # to complete part of LT&E program in 2016
Alabama	80	2474	125	1800
Arkansas	210	480	325	675
Northern California	15	259	20	195
California	762	762	745	745
Central Canada ¹	1270	339	301	557
Central Rockies ²	45	79	25	80
Florida	103	449	52	545
Georgia	124	678	140	681
Idaho	337	490	410	495
Indiana	0	44	0	40
Kentucky	355	1656	290	825
Louisiana	74	908	60	908
Maine	178	662	100	700
Maryland/Delaware	8	51	10	500
Michigan	255	1001		
Minnesota	537	1093	550	1100
Mississippi	331	642	200	1000
Missouri	95	441	90	441
Montana	114	1054	134	1075
New Hampshire	43	529	40	550
New Mexico	89	55	100	65
New York	106	523	75	550
North Carolina	131	1459	128	1543
Ohio	82	444	70	350
Oregon ³	636	840	650	850
Pennsylvania	103	525	80	600
Quebec	2690	887	1574	2167
South Carolina	133		130	900
Tennessee	57	400	50	410
Texas	64	472	87	536
Virginia	134	834	125	1000
Washington	82	124	58	100
West Virginia	150	1326	140	1000
Western Canada ⁴	609		600	
Wisconsin	135	1810	100	1800
Totals⁵	10137	23790	7584	24783

¹ Central Canada: Ontario and Manitoba

² Central Rockies: Colorado, South Dakota, and Wyoming

³ Oregon: OPL qualification is based on company recognition. However, beginning at the end of 2016, the numbers of both companies and SFT-trained employees will be reported thereafter.

⁴ Western Canada: British Columbia, Alberta and Saskatchewan

⁵ LT&E Numbers not received: Arizona. Also, the total for "Actual Numbers Completing Part of LT&E Program" in the charts on pages 4 & 5 are different due to the reporting of Oregon numbers (see footnote #3 above).

**LOGGER TRAINING AND EDUCATION (LT&E) PROGRAM TRAINING
SUMMARY
(2015 ACTUALS)**

State/Province	Actual Number Completing <u>Entire</u> LT&E Program in 2015				Actual Number Completing <u>Part</u> of LT&E Program in 2015			
	Logging Contractors	Logging Employees	Other ¹	Total	Logging Contractors	Logging Employees	Other ¹	Total
Alabama ²				80				2474
Arkansas	50	115	45	210	60	245	175	480
Northern California	15	0		15	78	181		259
California	132	630		762	132	630		762
Central Canada	466	754	50	1270	122	207	10	339
Central Rockies	45			45	79			79
Florida	87		16	103	412		37	449
Georgia	28	28	68	124	288	128	262	678
Idaho ²				337				490
Indiana	0	0	0	0				44
Kentucky	303		42	355	1407		249	1656
Louisiana	60		14	74	582		326	908
Maine	6	166	6	178	74	472	16	662
Maryland/Delaware ²				8				51
Michigan ²				255				1001
Minnesota ⁴	363	149	25	537	996		97	1093
Mississippi ²				331				642
Missouri ²				95				441
Montana	93	21		114	1054			1054
New Hampshire ²				43				529
New Mexico ²				89				55
New York ²				106				523
North Carolina	89	32	10	131	920	322	217	1459
Ohio ²				82				444
Oregon ⁵	636			636	840			840
Pennsylvania ²		103		103		525		525
Quebec	280	992	1418	2690	73	650	164	887
South Carolina	23	53	57	133				
Tennessee ²				57				400
Texas	62		2	64	396		76	472
Virginia	60	35	39	134	400	150	284	834
Washington ²	19	49	14	82	31	65	28	124
West Virginia ²				150				1326
Western Canada	609			609				
Wisconsin ²				135				1810
Totals³	3426	3127	1806	10137	7944	3575	1941	23790

¹ Other includes foresters, landowners, consultants, students, government personnel, and natural resource managers.

² Records do not include job classification.

³ LT&E Numbers not received: Arizona

⁴ Minnesota combined Contractors and Employees completing Part of LT&E Program in 2015.

⁵ Oregon - OPL qualification is based on company recognition. However, beginning at the end of 2016, the numbers of both companies and SFT-trained employees will be reported thereafter.

**ALABAMA
LOGGER TRAINING AND EDUCATION SUMMARY**

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Program

Name: **Alabama Professional Logging Manager**
 The Professional Logging Manager (PLM) Course was started by the Alabama Cooperative Extension Service in 1993 and was patterned after the Tennessee Master Logger program. The program consists of two days training using classroom presentations.

Participants who complete the program receive a certificate of completion and an identification card. 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.

**Required
Courses:**

The specific course work consists of these two eight-hour sessions:

Forest Resource Conservation – Begins with overview of the Sustainable Forestry Initiative (SFI) followed by the conduct of a timber harvest from economic and environmental perspectives. Presentations cover endangered species, conserving biodiversity, forest productivity through forest management, Best Management Practices for water quality protection, and timber harvest planning.

Logging Safety and Compliance – Presentations include: general logging safety precepts applicable to all logging workers, specific job task safety principles, business regulations, and logging business information and management tools.

Other: The Professional Logging Manager Course was originally funded through a TVA grant to Auburn University. The course is supported by the Auburn University School of Forestry and the Alabama Cooperative Extension System, and endorsed by the Alabama Forestry Association, the Alabama Loggers Council and the Alabama Sustainable Forestry Initiative. PLM courses are taught by Dr. Mathew Smidt of Auburn University.

Participants are charged \$125.00 pre-registration and \$150.00 walk-in registration to cover the costs of travel, materials, meals, etc associated with the course.

The Alabama Loggers Council and the SFI Loggers Education Committee require six hours of continuing education credits per year to maintain PLM status. Participants are allowed to carry up to six hours of continuing education over to the following year. Continuing education opportunities include traditional training workshops; however, there are also continuing education opportunities online at www.alaforestry.org.

**Training
Summary:**

Participants	Actual Number Completing Initial PLM Training in 2015	Actual Number Attending At Least One Course in 2015	Est. Number Expected to Complete Initial PLM Training 2016	Estimated Number Expected to Attend Some Courses in 2016
Loggers, Foresters And Others	80	2474	125	1,800
TOTALS	80*	2474	125	1,800

**1648 individuals met continuing education requirements & renewed PLM status for 2016*

Production

Data: The annual production for PLM graduates is estimated to be 28,110,000 tons
Data was developed from production figures of Alabama SFI member companies

Training

Modules: Twenty five one-hour courses available at \$35 per hour with a \$10 discount for members. Topics include trucking regulations, BMPs for water quality, nonnative invasive species, threatened and endangered species, and forest certification. Programs are available online at www.alaforestry.org/plm. Participants start and completion time is monitored and participants receive a certificate of completion once they pass an automated quiz. (Many of these courses are recorded live sessions.)

**ARKANSAS
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **George Lease**
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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. 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 15,993 persons in the LT&E database. As of December 31, 2015, attendance at ATPA workshops has been 49,704 in 1,227 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. Thirty companies contributed \$180,00 in 2015, and they have pledged a similar amount in 2016. A total of 1,434 loggers and foresters received LT&E in 40 workshops in 2015. Thirty workshops have been planned for Arkansas, Oklahoma, and Texas in 2016.

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. Over 80% of the 2015 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
- BMP/Pipeline Safety

Training Summary

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending at Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	50	60	30	150
Logging Employees	115	245	220	400
Other (Foresters)*	45	175	75	125
TOTALS	210	480	325	675

**Records do not indicate job classification*

Production

Data:

Based on comments from those companies which funded our LT&E program, we estimate that the 4,850 Ark Pro Loggers (LCs and LT&E grads) accounted for over 96 percent or approximately 12.2 million tons of the State of Arkansas' timber harvest of just over 13 million tons removed from Arkansas forests in 2015 (Source: Arkansas Forestry Commission).

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.

**NORTHERN CALIFORNIA
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Buzz Eades, Director**
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Program
Name: **LANC Certified Logger Program**

Required
Courses: The LANC program requires a company to complete twenty (20) credit hours of approved training courses, which cover all the (10) 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 ten (10) Logging Education Categories. All employees for the company must be trained 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.

(Continued on next page)

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	15	78	20	20
Logging Employees	0	181		175
Other				
TOTALS	15	259	20	195

Production

Data: No current plans to track.

Program

Funding: Funded by loggers and their association.

Training

Modules: LANC has one on-line training course, a two (2) credit hour course – "Introduction to Forest Certification," and are working on more.

LANC is developing a training module to address the "new" (2015-2019 SFI Standard.), "Awareness of Rare Forested Natural Communities..."

**CALIFORNIA
LOGGER TRAINING AND EDUCATION PROGRAM**

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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:**

Best Operating Practices

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

Business Practices

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

Safety and Risk Management

- 1) Managing risks and claims
- 2) First Aid & CPR training
- 3) Hearing conservation

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

**Additional
Training
Available:**

California Timber Operators License Program

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

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

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

<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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	132	132	130	130
Logging Employees	630	630	615	615
Other				
TOTALS	762	762	745	745

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 2015)

**CENTRAL CANADA
(Ontario and Manitoba)
2015 LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: Central Canada SFI Implementation Committee (CCSIC)
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Program Name: Qualified Logging Professional Training Requirements

Required Training:

- 1. Legal Requirements:** The individual must have all of the training that is legally required (Ontario/ Manitoba). Loggers and Logging Contractors are expected to know what training is legally required. Some examples could include Mechanical Harvesting Equipment Operator Common Coren (Ontario) and Workplace Hazardous Materials Information System (WHMIS)
- 2. SFI Awareness & Best Practices:** The individual must have training and awareness of the principles of sustainable forest management certification, the SFI Standard and best Management Practices applicable to their operation.
- 3. Continuing Education:** The individual must have CE training every year and demonstrate a growing awareness that supports past training, safety and principles of sustainable forestry.

The CCSIC has developed the following delivery mechanisms which serve to further define mandatory minimum training requirements for Qualified Logging Professionals.

- 1. CCSIC Training Program.** The CCSIC has developed a series of mandatory CCSIC Training Modules (Courses) for use as training aids focused on SFI Awareness and Best Practices.
- 2. CCSIC Approved Training Program.** The CCSIC respects that members may choose to customize their own Training Modules (courses) that meet CCSIC QLP criteria by building on all or part, of the mandatory CCSIC Training. Members have an opportunity to have their own training program (Modules / Courses) reviewed and “approved in writing as equivalent” by the CCSIC Inconsistent Practices Coordinators. For more information contact your local CCSIC member.

3. CCSIC Continuing Education (CE). The CCSIC develops CE Training Modules (Classroom) and CE Training Bulletins (Tailgate) available on the CCSIC – CE Tool Box (Website) as aids for topical SFM field oriented coursework. The CCSIC definition of coursework is deliberately flexible; it can be oral or written in the form of presentations; seminars; workshops; tailgate sessions; face to face meetings or online. Members have an opportunity to have their own CE coursework reviewed and “approved in writing as equivalent” by the CCSIC Inconsistent Practices Coordinators. For more information contact your local CCSIC member.

Production

Data: Not Available

Continuing Education:

The training requirements are delivered by Program Participants typically to their workers and on an ‘as needed’ basis for new hires. Site Specific training is also delivered on an ongoing basis during field pre-work prior to commencement of harvesting, road building and other logging related activities. Both logging contractors and Program Participants are typically required to sign-off on a pre-work document.

In order to meet SFI Forest Management Standard – Objective 11, Performance Measure 2, Indicator 2 and SFI Fiber Sourcing Standard Objective 6, Performance Measure 2, Indicator 2, CCSIC will at each Fall/Winter meeting determine a current topic to develop an annual training module to be available for implementation as new supplemental training (“coursework”) annually in the Spring prior to operations kick off.

Additional Training

Available: Additional Training is available through outside agencies such as Workplace Safety North which have the following training:

- Act & Industrial Regulations
- Cargo Securement for Forestry Operations
- Fall Protection in Forestry
- Principles of Rigging, Hoisting and Towing on Logging Operations
- Safe Travel on Logging Roads

Program Funding:

Program participants self-funded.

Training

Modules: CCSIC provides the following training modules:

1. Sustainable Forest Management Certification
2. Central Canada SFI Implementation Committee
3. Introduction to the SFI Standard
4. Qualified Logging Professionals
5. Species at Risk/Invasive Species
6. Best Management Practices: Harvest Operations
7. Best Management Practices: Access
8. Best Management Practices: Reforestation and Aesthetics
9. Best Management Practices: Dangerous Goods
10. Requirements for Forestry Operations in Ontario

Training Summary:

Participants	Actual Number Completing LT&E Program in 2015*	Actual Number Attending at least one course in 2015	Estimated Number expected to complete LT&E program in 2016	Estimated Number expected to attend some courses in 2016
Logging Contractors	466	122	52	180
Logging Employees	754	207	224	339
Foresters	11	10	0	10
Landowners	29	0	25	25
Government Officials	3	0	0	3
Students	0	0	0	0
Others	7	0	0	0
TOTAL	1270	339	301	557

* Number of new & existing QLP's in 2015.

**CENTRAL ROCKIES
LOGGER TRAINING AND EDUCATION SUMMARY**

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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:	<u>Course</u>	<u>Classroom/Lecture/Discussion Hours</u>
	DAY 1	
	Intro to Forest Resource Conservation	1.5
	Intro to Business Logging	2
	Intro to Timber Harvest & Transportation Safety	2
	Managing Forests with Exceptional Conservation Safety	2
	DAY 2	
	Best Management Practices for Water Quality	4
	Intro to Forest Ecology	2
	Introduction to Silviculture	1
	The Future of Woody Biomass Feedstocks	1
	First Aid (as required by OSHA)	<i>(acquired locally)</i>
	Total	15.5

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees	45 certified 0 re-certified	79	25	80
TOTALS*	45	79	25	80

**Records do not indicate job classification.*

Production Data: No current plans to track.

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

Training Modules: (No online training modules were developed or offered in 2015.)

**FLORIDA
LOGGER TRAINING AND EDUCATION SUMMARY**

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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: The 2015 Basic 2 Day Master Logger Education courses covered the following:

Environmental Module: FL BMPs, FL Wildlife BMPs, Invasive species
Endangered Species, Invasive Species, Silviculture Rules

Business Management: Wage and Hour, Commercial Vehicle Enforcement
Emerging Technologies

Safety Module: OSHA Logging, Loss Control, Hazard Chem. Spill
Prevention, Image, Public Relations, Working With People

The 2015 Basic continuing education courses covered the following:

**Harvesting Aesthetics, Waste Disposal, Stream Classification
Technology for Loggers, Wildlife Best Management Practices**

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program (Master Logger) in 2015	Actual Number Attending At Least One Course (cont ed) in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Loggers	87	412	45	497
Non Loggers	16	37	7	48
TOTALS	103	449	52	545

**Program
Funding:**

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

**Program
Revision:**

January 2016 was the starting point for a new Florida Master Logger Program design. The Florida Sustainable Forestry Initiative (FSFI) State Implementation Committee (SIC) decided to revise the continuing education logger training topics and hours. The Master Logger Annual Update is made up of four (4) hours of continuing education. The first hour was produced by the SFI-SIC, which includes the basics of Logging Cost Analysis. The other three hours must be pre-approved forestry content prior to being taught to the loggers. The Florida Forestry Association have three additional hours approved, which are: logger insurance and trucking rules and regulations, Florida's Silvicultural Best Manage Practices, and logging around power lines. This new Florida Master Logger Annual Update is the only continuing education accepted for Master Logger certificate renewal in Florida. No other continuing education is required nor accepted in this new program. "Other Participants" (non-loggers who took the initial 2-day training) are also now required to maintain the same continuing education requirements as a Master Logger if they wish to maintain "trained" status. This training is currently not available online, and only approved facilitators may teach this training.

**GEORGIA
LOGGER TRAINING AND EDUCATION SUMMARY**

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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. Workshop material is offered in three categories: environment, business management, and safety.

The Environment 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. Twelve (12) hours of CLE are required to renew GA-MTH status. A minimum of four (4) of the twelve required hours must be in the environmental topics discussed in the Master Timber Harvester introductory workshop. The remaining eight hours are “elective” and may be in any subject matter addressed in the MTH workshop (The Environment, or Business Management, or Safety modules).

**Training
Summary:**

Participants	Actual Number Successfully Entered LT&E Program in 2015	Estimated* Number Attending At Least One Qualifying Course in 2015	Estimated Number Expected to Enter LT&E Program in 2016	Estimated** Number Expected to Attend Some Qualifying Courses in 2016
Logging Contractors	28	288	32	303
Logging Employees	28	128	31	155
Other	68	262	77	223
TOTALS	124	678	140	681

**Based on 2015 GA-MTH renewals and reinstatements.*

***Based on 2016 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. Georgia continuing education providers include the Southeastern Wood Producers Association, University of Georgia’s Warnell School of Forestry and Natural Resources, and some technical colleges.

Online courses approved for CLE or CFE credits are accepted for GA-MTH continuing education purposes. Examples of approved online training in 2015 included offerings from the Southeastern Wood Producers Association, Alabama Forestry Association, Warnell Continuing Education, and Southern Region Extension Forestry.

**IDAHO
LOGGER TRAINING AND EDUCATION SUMMARY**

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**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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other				
TOTALS *	337	490	410	495

**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 2015)

**INDIANA
LOGGER TRAINING AND EDUCATION SUMMARY**

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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. (1 day- 50% outdoors)

Other:

First Aid & CPR training are the loggers' responsibility.

Note: All Indiana State Forest timber sales now require that at least one person (timber buyer, supervisor, or crew member) have the minimum of Level 1 Cutter Training and also Introduction to BMPs.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
	0	44	0	40
TOTALS	0	44	0*	40*

**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 2018. The program will be 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.

**KENTUCKY
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Kentucky Master Logger Office**
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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 2016. The cost is \$85.00 per person for all three sessions. Training is required in the following areas:

Required**Courses:**

Laws and Regulations, Silviculture, Stream Crossings and BMPs regulations are taught by Dr. Jeff Stringer of the University of Kentucky Cooperative Extension Service and Kentucky Division of Forestry personnel. This session covers laws and regulations, silviculture, 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 7,751 loggers have graduated since the KML program first started (225 programs since 1992). 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 18 continuing education classes scheduled throughout 2016 by the Kentucky Master Logger (KML) office so that loggers can attain the six CEC's required to maintain their KML status. Kentucky Master Loggers can receive credit for attending programs not conducted by the KML Office, such as those conducted in other states or by industry as long as the program is approved for content by the KML office.

Testing of participants in the introductory Kentucky Master Logger Program indicates a 40% increase in knowledge of basic logging practice. Annually, an average of 112 small logging firms are provided assistance with complying with state laws by attending the introductory program and resulting in jobs for 347 individuals (owners or employees). Environmental assessment of program participants indicated that best management practices usage ranged from 80 to 90 percent for streamside management zones and haul road and skid trail drainage control practices to 30 to 40 percent for the use of improved stream crossings and successful revegetation of skid trails. The end result of the introductory program is that 128 perennial streams and 355 intermittent streams are provided enhanced environmental protection annually.

Advanced training for Kentucky Master Loggers annually enrolls approximately 1,400 Kentucky Master Loggers. Training involves Silviculture of Timber Production, Bucking Optimization, Logging Aesthetics, Advanced BMPs, Timber Cruising Basics, Logging Mechanics and Equipment, Map and GPS for Loggers, and Log, Lumber and Tie Grading. Post-training evaluation indicate that approximately 400 logging businesses maintain compliance with state laws through this training. Post-training evaluation indicated a use rate average of between 45 and 90 percent for advance program training courses.

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

	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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors and Employees	303	1407	240	700
Landowners	19	83	18	35
Govt. Employees	14	75	20	50
Other	19	91	12	40
TOTALS	355	1656	290	825

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.

**LOUISIANA
LOGGER TRAINING AND EDUCATION SUMMARY**

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Program Name:

The Louisiana Sustainable Forestry Initiative Education Program

The forestry community of Louisiana has developed a comprehensive 33 hour 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 their (6 hr.) Continuing Education requirement will receive a billfold size card certifying they are in good standing.

Required

Courses:

Timber Harvesting and Transportation Safety & OSHA Regulations

A four-hour session using interactive videos highlighted by *APA's Loss Control for Professional Loggers program and Operation Lifesaver* is presented first. Logging contractors are encouraged to bring their operators for this program. Breakout sessions are held for an in-depth discussion of hazards associated with all areas of the logging job and the participants are expected to perform a mock "tailgate" meeting with a crew. Three workshops with 74 attending were offered in 2015.

Using the Louisiana Logging Safety Manual as a text, logging contractors are made aware of OSHA logging regulations and their responsibility for training employees. The course gives the contractor the tools necessary to train his personnel in logging safety. Breakout sessions review FRA's *OSHA Logging Safety Video*. The text includes sections on OSHA Standards, forms & records, Hazcom Program, MSDS, Safety Policy, Blood borne Pathogens and the Louisiana Ten-point Safety Plan. Three workshops with 74 attending were offered in 2015.

Best Management Practices and Harvest Planning

An eight hour course on forest regulatory history, Clean Water Act, Wetlands, Endangered Species, Reforestation Alternatives, and Harvest or Timber Sale planning is offered. Using the video, *Louisiana's Voluntary Best Management Practices for Professional Loggers*, trainees share their experiences with each other on their use of BMPs. A harvest plan is developed from facts presented during the session. Three workshops with 74 attending were offered in 2015.

Erosion Control

"You have told us why we must use BMP's, now show us how" logging contractors commented after the 1996 BMP training season. Members of the SFI committee asked the USDA-Natural Resource Conservation Service to assist in developing a training session that would address the logging contractors' needs. The six-hour combination classroom and field exercise workshop on planning, design & construction of forest water control measures meets this objective. Three workshops with 74 attending were offered in 2015.

Business Management

Meeting the business management needs of the modern logging contractor is the objective of this eight-hour session. A Certified Public Accountant discusses Wage & Hour laws and leads the class through the procedure of reporting federal and state payroll taxes. Other topics include; off-road fuel regulations, insurance, timber sale reporting requirement, deeds & contracts, better profits in trucking wood, financial management and estate taxes. Three workshops with 74 attending were offered in 2015.

Forestry Aesthetics

The Sustainable Forestry Board included Forestry Aesthetics in the SFI Core Indicators for wood producer training in the 2002-2004 edition of the SFI Standards. The Louisiana SIC added the Forestry Aesthetics to the Core Curriculum for attaining Louisiana Master Logger status by the end of CY 2003. The three-hour workshop, developed by the Forest Resources Association, Inc., was incorporated in the training program to meet this requirement. Three workshops with 74 attending were offered in 2015.

Production

Data: An estimated total of 27 million tons of wood was produced for Louisiana mills in 2015. An estimated 25.6 million tons were produced by fully trained logging contractors.

Training Summary for Required Courses:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors & Logging Employees	60	582*	50	582
Foresters	14	326*	10	326
TOTALS	74	908*	60	908*

Records do not indicate job classification.

Continuing Education:

A total of 4 workshops were presented in 2015 with 145 in attendance. Johnny Thompson taught 4 Forestry Technology Workshops and Lindsey Torbett (2), Paul Spillers, and Terrence McCay taught 4 Financial Freedom Workshops. (1) Avoiding Fines & Keeping Records Update in attendance 26, taught by State Police, La Tax Department and LA DMV that where very well attended and received very positive feedback.

In 2015, we finished up with three forestry forums, Cenla, SW, and Florida Parishes, with 136 in attendance. La Tree Farm Inspector Training 68 in attendance.

Chapter meetings – 7 chapters = 540 attendees total

The main emphasis in 2015 was our Forestry Technology & Financial Freedom Training done by instructor Johnny Thompson, Lindsey Torbett, Paul Spillers and Terrence McCay. This workshop focused 21st century technology for the loggers.

In 2016, our plans for continuing education are State Police, Weights & Standards, Driver Records, Business Management, and Trucking Insurance (how to manage your insurance cost on trucking). Total Number of individuals completing the curriculum as of December 31, 2015: 582 Master Loggers + 326 Foresters = 908.

Training Modules:

No online training modules were developed or offered in 2015.

MAINE
2015 LOGGER TRAINING AND EDUCATION SUMMARY

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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 60% less than in 1993. The mechanical logging employees pay a rate 64% 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.

Cost: The fee for the initial course and certification is \$550 per person, and \$150 for recertification.

**Training
Summary:**

Participants	Total completing CLP certification requirement in 2015	Total fulfilling re-certification requirements in 2015	Estimated # to complete certification training in 2016	Estimated # to complete recertification training in 2016	Total trained since 1991
Logging Contractors	6	74	5	10	679
Logging Employees	149 mechanical 17 conventional	400 – mechanical 72 - conventional	80 – mechanical 10 - conventional	570 – mechanical 100 – conventional	2381– mechanical 2764 – conventional
Others (Foresters/Contract Admins.)	6 associates	16 – associates	5 - associates	20 – associates	530 - associates
TOTALS	178	662	100	700	*6,354

**The total number trained does not represent the number of people currently certified. Active CLPs can be found on our website at www.clploggers.com.*

Injuries & Illness rate per 100 workers:

Statistics from Maine’s Department of Labor - Maine logging Injury and Illness rate for 2014 is 4.5 per 100 workers. This injury rate has been less than the average of all other Maine occupations in the private sector since 1994.

**Funding Sources
for the Program:**

Actual Income and Expenditures for 2015 – \$192,049

Income Sources:

Participant tuition – 96%

Maine SFI (SIC) contribution – 4%

In kind CLP stakeholder support:	
Insurance Co. (MEMIC)	\$15,000
State Agencies (MFS, IF & W)	\$20,000
SFI	\$10,000
University of Maine Forest	\$5,000
Me. Forest Products Council	\$2,000
Landowners, Mills	\$1,000
Loggers	\$15,000
Maine TREE Foundation	\$5,000
St. Peter Safety Services	\$20,000
Total	\$88,000

**Online
Training
Modules:**

Online mechanical harvesting module will be considered in 2016 as a training option.

2016

Projects:

Third party Certified Harvesting Company (CHC) program will be piloted.

**MARYLAND/DELAWARE
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 Master Logger Program consists of two modules, Sustainable Forestry and OSHA Logging Safety, and contains 16 contact hours. In addition to completing the Core education modules, participants must provide proof of current First Aid and CPR certification and sign a code of ethics in order to receive their Master Logger certificate. All core courses are generally delivered on demand by distance-learning formatted materials.

The core program contains the following topics:

Sustainable Forestry Core (3 days, 12 contacts hours)

Sustainable Forestry I: BMP's Erosion and Sediment Control; Logging Aesthetics

- 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

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

Sustainable Forestry III: Endangered Species; Logger Activism

- History of Endangered species in U.S
- Introduction to the ESA
- Federal ESA regulations
- State Specific RTE regulations
- Description of MD State RTE species
- Introduction to Outreach and Activism
- Activism tools and techniques

OSHA Logging Safety Core (1 Day - 4 hours)

- Presentation of Statistics on Logging Injuries
- Introduction to 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.

Continuing Education

Courses:

Participants must complete 8 hours of continuing education courses every two years in order to maintain their active status in the program. Maryland offered the following continuing education courses in 2015:

- **Advanced Silviculture: Making the NRCS Golden-Winged Warbler Initiative Work for You (Spring 2015)**
- **Advanced Silviculture: Forest Stand Improvement: NRCS's Conservation Stewardship Program (Fall 2015)**

As a University of Maryland program, the MD/DE Master Logger Program is not in the position to conduct job-site inspections, due to its nature as an enforcement activity. In the place of site inspections, 20-30 minute tailgate safety sessions are occasionally conducted at selected operations.

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 last two years) can also take the OSHA Logging Safety, Sustainable Forestry I, and Sustainable Forestry III classes for CE credit.

Courses scheduled for 2016:

Core courses will be offered through distance learning by DVD on an as-needed basis in 2016. One likely continuing education course for 2016: **Revised Forest Operator Sedimentation and Erosion Control BMP Training.**

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other				
TOTALS	8*	51*	10*	500* **

**Records do not indicate job classification.*

*** New revisions to Maryland State BMPs for Sedimentation and Erosion will require retraining all forest operators registered with the State of Maryland.*

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 DVDs provided on demand. The cost is \$30 per logger to take any core course.

Continuing education classes are generally offered as workshops offered in a live classroom setting at least twice a year in at least two locations across the State.

**MICHIGAN
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 20 plus 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, and others.

Recap of Michigan SFE Logger Education in 2015

In 2015, 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 2015, there were 34 SFE Continuing Education (CE) training programs and 4 Core Training programs offered across Michigan. The MI SFI Implementation Committee was the primary provider of SFE training. There were 1001 participants in continuing education programs in 2015. There were 255 participants in the core training programs in Michigan in 2015.

Other offerings of safety, 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 organizations 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. The MI Department of Agriculture also sponsored various courses through the Conservation District Forester programs and the MI Department of Environmental Quality held two training sessions on stream crossing and BMP guidelines.

The Michigan SFI IC tracks logger training and is the administrator of the database. There were a total of 43 classes offered and 144 credit hours available for SFE training in MI counting all continuing education and core classes.

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, Mineral and Fire 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, Mineral and Fire 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. 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. 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 2015 calendar year:

- *Truck safety, harvesting (3 times/locations)*
- *BMP's, protecting sensitive sites, T & E species (8 times/locations)*
- *Biodiversity, special sites, forests high conservation value. (4 times/locations)*
- *Invasives' 3 times/locations)*
- *Business Management (1 time/location)*
- *Bucking for grade (multiple time/locations)*

(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 1001 loggers and foresters participated in the MI SFE CE training program in 2015 and 255 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 are in the process of developing more outdoor training opportunities for 2015 as pointed out in a 2015 survey from trainees.

**MINNESOTA
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Rachel Peterson, Executive Director**
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 Minnesota Master Logger Certification Program (MMLC)
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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 Associated Contract Loggers and Truckers, Timber Producers Association, 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.

Minnesota Master Logger Certification - www.mlep.org/mmlc.htm

Minnesota Master Logger Certification (MMLC), as administered through MLEP, is a performance-based program for loggers that recognize training, experience, and the application of specific practices. MMLC has been endorsed by Time Inc. as meeting the requirements of their Certified Sustainable Forestry program. The Minnesota Master Logger Certification Program is a third-party audited certification of a logging operation's business and harvest practices. As of February 23, there are 35 Minnesota Certified Master Loggers.

Required Courses:

The Minnesota Logger Education Program, in cooperation with the Minnesota SFI® Implementation Committee, agree that to be considered

- (1) a "qualified logging professional" in Minnesota and
- (2) to maintain your MLEP membership,

you must meet the following training requirements:

First Year Training Requirements

New Members are considered Provisional members until required Guideline training and Safety training are successfully completed.

- 1) Guideline Training: 8 Hours of training addressing Minnesota's Forest Management Guidelines (provided through the online eFMG course covering BMPs)
- 2) Safety Training: 8 hours of First-aid and CPR Training is required (LogSafe)

Annual Training Requirements:

A business owner and/or crew member(s) who "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.)"* must attend:

- 1) Safety Training – Twelve (12) hours of safety training every two years to include:
 - Four (4) hours of CPR
 - Four (4) hours of First-Aid
 - Four (4) hours of Safety Training (OSHA)
- 2) Continuing Education – Twelve (12) hours of MLEP training every two years to include:
 - A mix of 4 and 8 hour workshops on any accepted continuing education topic.

At a minimum, SFI requires that "each crew must include a qualified logging professional 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.)"*

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

Logger Certification

The Minnesota SIC recognizes the Minnesota Master Logger Certification program as meeting the requirements for a credible logger certification program as detailed in Objective 16, Performance Measure 16.2, Indicators 2a-2h of the SFI 2010-2014 Standard. Further, a Minnesota Certified Master Logger is recognized by the SIC as a “certified logging professional (CLP)” as defined by the SFI 2010-2014 Standard.

QLP and CLP Lists

The electronic training record [database](#) maintained and distributed quarterly by MLEP provides a timely training record history of all QLPs in Minnesota. Additionally, a list of all current CLPs can be accessed on our website (Objective 9, Performance Measure 9.1, Indicator 2 of the SFI 2010-2014 Standard).

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

- 2016 <http://www.mlep.org/trainingcurrent.htm>
- 2015 <http://www.mlep.org/training2015.htm>
- 2014 <http://www.mlep.org/training2014.htm>
- 2013 <http://www.mlep.org/training2013.htm>
- 2012 <http://www.mlep.org/training2012.htm>
- 2011 <http://www.mlep.org/training2011.htm>
- 2010 <http://www.mlep.org/training2010.htm>
- 2009 <http://www.mlep.org/training2009.htm>
- 2008 <http://www.mlep.org/training2008.htm>
- 2007 <http://www.mlep.org/training2007.htm>

Online Training Options

- <http://www.mlep.org/trainingonlinemain.htm>

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

Annual Membership

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

- Sustainable Forest Management
- Transportation
- Business Management
- Safety

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	363		370	
Logging Employees	149	996 (C&E)	150	1000 (C&E)
Natural Resource Mgr	25	97	30	100
TOTALS	537	1093	550	1100

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.

More information on our funding and budget are included in our latest Annual Reports:

MLEP - <http://www.mlep.org/documents/mlepannualrept2014.pdf>

MMLC - <http://www.mlep.org/MMLC/mmlcannualrept2014.pdf>

**MISSISSIPPI
LOGGER TRAINING AND EDUCATION SUMMARY**

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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.

Required

Courses: 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 2015, 331 individuals attended one or more of the core set of classes. An additional 642 individuals or companies participated in program sponsored or approved continuing education activities.

Recently, the State Implementation Committee has decided that individuals who have not met certain requirements will be dropped from the program and must start over again if they wish to renew their PLM Status. This will change the numbers reported here and in other publications. Starting next year, we will no longer be able to report numbers since the beginning of the program in 1996. The only numbers available will be for the current and previous continuing education periods.

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
- 5) 12 Hours of Continuing education every two years (next deadline is December 1, 2016).

Other: During 2016 we will continue to offer all four core workshops as well as continuing education programs.

Training

Summary:

Participants	Actual Number Completing 1 or both Core Classes for PLM Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Number of individuals	331	642	200	1000
TOTALS	331	642 ²	200	1000

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

²Total individuals either participating in core OR submitting continuing education credits

Number of Individuals who are Qualified Logging Professionals - 1548

Number of Qualified Logging Companies - 1000

Production

Data: Accurate production figures are not available.
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 2015.

**MISSOURI
LOGGER TRAINING AND EDUCATION SUMMARY**

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

The PTH Program is fortunate to have Joe Glenn as the instructor for the hands-on sessions that teach "SAWW (Safety And Woods Workers) techniques to Missouri's loggers. Currently, there are over 500 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 70 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 \$155 for MFPA 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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other	(PTH TRAINED THAT YEAR)	(PTH CERTIFIED)		
TOTALS*	95	441	90	441

*Job classification was not provided.

Production**Data:**

Not available.

Training**Modules:**

Two DVD's (**Skidder Safety** and **Woodyard Safety**) which included a short test were provided to loggers unable to attend "live" training in 2012.

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

**MONTANA
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 2016, the program lists 114 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.

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

Forest Stewardship Workshop for Loggers

A four-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 (16 hours)
- Safety Hazards & Loss Prevention (8 hours)
- Operational Sustainability (8 hours)

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	93	1054	108	1075
Logging Employees	21		26	
Other				
TOTALS	114	1054	134	1075

* 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 2015.)

**NEW HAMPSHIRE
2015
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 and transportation of timber. 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 from www.nhtoa.org. A total of 31 workshops were conducted during 2015, with a total attendance of 529.

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.

Certification**Requirements:**

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: Courses offered by NH PLP in 2015, which qualified for continuing education credit included: Advanced Felling, Advanced Safe Trucking, Skidder Bridge Construction, Metes and Bounds (land navigation), Forest Road Construction, Logging Business Management, and USFS Timber Cruising Standards.

The NH PLP Education Committee will meet in July to develop more CEU workshops for the fall. The highest percentage of enrollees will be those in need of re-certification. In 2015, a total of 43 loggers and truckers were either newly certified or re-certified.

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other (out of state)				
TOTALS*	43	529	40	550

Production

Data: Estimated annual production from PLP certified loggers: We estimate that 70% of the wood harvested in New Hampshire comes from operations that have fully trained loggers or foresters overseeing the operation. By that estimate, a little over 2.4 million tons of forest products are harvested annually in New Hampshire by fully trained loggers. These are based on harvest volume totals reported from 2014

Funding Sources for the Program:

- Class fees
- Fund raising at the Annual Loggers and Truckers Convention
- Contribution from SFI
- Membership dues
- Grant funding from the U.S. Forest Service

Online Training Modules:

(No online training modules were developed or offered in 2015. We are not pursuing this model at this time, as we feel the networking that comes from attending in person workshops is part of the real value of our program.)

Respectfully submitted by Steve Patten, Program Director NHTOA.

**NEW MEXICO
LOGGER TRAINING AND EDUCATION SUMMARY**

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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:**

<u>Description</u>	<u>Classroom/Lecture/Discussion/Field</u>
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 hour
• 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 2015	Actual Number Submitting Renewal Credits in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Renewal Courses in 2016
Logging Contractors Logging Employees				
Other				
TOTALS*	89	55	100	65

**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 2015.

**NEW YORK
2016
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **New York Logger Training, Inc.**
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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, two **Forest Technician degree programs** are accredited to bestow TLC to qualified students.

Other:

Certification is valid for three years. 3 Continuing Education credits over the three year certification period and proof of valid First Aid and CPR are required for recertification. Workshops are available through existing providers or developed and presented by NYLT.

Last year, course topics included:

Game of Logging

Rehabilitation of Forest Stands

Invasive Forest Species

Header Planning & Safety

Hazard Trees Mechanized Harvesting

Critical Injury Response for Loggers

Intro to GPS

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: 2015

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2015
TOTALS*	106	523	75	550

**Records do not indicate job classification – NYLT workshops are open to all participants regardless of affiliation or job description.*

Production

Data: Production data for certified loggers is not available.

Funding

Sources: Funding Sources for the Program:

- Grants: 50% - NYLT through a Grant to the Empire State Forest Products Association has been awarded New York State Department of Labor Hazard Abatement Board Occupational Safety Training & Education grants to assist with developing and conducting safety training courses. The SFI Implementation Committee and private companies make up the balance of the grant funding.
- Participant Fees - \$20 Administration fee to register non-NYLT sponsored workshops (excluding FA/CPR which has no fee).
- Administrative fee per credit -15%
- SFI SIC- 20% for administration.
- In-Kind Services - NYLT depends less each year upon the generosity of industry, consultants, non-profit groups, extension, college, and state agriculture and forestry departments, and OSHA personnel for instructors, classroom meeting space, and field locations. We work closely with Vocational and Technical schools to provide training opportunities and materials so that graduates qualify for certification.

Online Training

Modules: No online training modules were developed or offered in 2015, however there are several grant applications placed for this specific purpose. NYLT does, however, accept completion of on-line Defensive Driving as CE credit.

**NORTH CAROLINA
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 final 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, the NCFA keeps participants posted of any upcoming workshops or events that are available regarding logger education and information via website and the Treeline, the monthly newsletter. Occasionally, direct mailings are sent to each current ProLogger.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	89	920		
Logging Employees	32	322		
Other	10	217		
*TOTALS	131	1,459	128	1,543

** 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 July 1st - June 30th. There is an annual fee of \$110 which includes all class fees and membership in the NCFA. There are 1,459 ProLoggers who have met the requirements for the 2015-2016 year.

**Additional
Training**

Available: Defensive Truck Driver Training- A four-hour course, typically on Saturday mornings, for truckers and boss loggers who want to learn how to drive defensively and to plan logging sites to avoid crashes involving trucks.

Continuing Education Modules - A ten-volume series of three-hour training sessions are available 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 NCFR 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

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 the public via web search.

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 70 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.

OHIO
LOGGER TRAINING AND EDUCATION SUMMARY

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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: 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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other				
TOTALS*	82	444	70	350

*Records do not indicate job classification.

Currently, there are 154 Ohio Master Logging companies and 230 trained loggers

Production

Data: Not Available.

Additional Training Available:

- 1) CSAW Levels 1 & 2
- 2) "Partnerships for Sustainable Forests" (SFISM-oriented) logger & landowner workshops

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: N/A - no online modules.

**OREGON
LOGGER TRAINING AND EDUCATION SUMMARY: 2015**

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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, 2015, 636 logging operator companies maintain their Oregon Professional Logger status, representing roughly 60% of the state's estimated 1,060 logging companies. AOL projects that they produced an estimated 3.2 billion board feet (80%), of Oregon's estimated 4.0 billion board foot timber harvest statewide in calendar-year 2015.

Training Summary:

Participants	2/ Actual Number Completing Entire LT&E Program in 2015	3/ Actual Number Attending At Least One Course in 2015	2/ Estimated Number Expected to Complete LT&E Program in 2016	3/ Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	636	840	650	850
Logging Employees		2896		2900
Other				
1/ COMPANY TOTALS	636	840	650	850

1/ OPL qualification is based on company recognition. However, beginning at the end of 2016 the numbers of both companies and SFT-trained employees will be reported thereafter.

2/ Number of OPL qualified logging operator companies at year-end

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 900 Oregon harvest contractors have received the training.

Oregon's Forest Protection Laws: Illustrated Manual, 2nd Edition.'

AOL in 2011 helped revise and publish the 2nd 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, including, but not limited to: Oregon Logging Conference, AOL Safety Conference, AOL meetings, other 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, insurers, county-state-federal agencies, community colleges, consultants, associations, OR State University-Extension, 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 to \$10,000/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 21-year history of the OPL, the SFI-Oregon Implementation Committee has contributed about \$58,000 to support AOL administration of the OPL program.

Training

Modules: No online training modules were developed or offered in 2015.

**PENNSYLVANIA
LOGGER TRAINING AND EDUCATION SUMMARY**

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Program

Name: **PA 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 administrates the program's training policies, develops course curriculum, delivers workshops, and manages training records for the more than 7,000 individuals that have participated in our training program to date.

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 does not endorse the work of individual loggers or businesses but verifies that they have met the training standards described in the Training Program Policy.

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

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.

Certified 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. TIMO and REIT's 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 flat financial contributions 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.

Required Courses:

Core level

The core training component of the PA 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 PA SFI training card valid through the end of the following calendar year.

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, 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 certified providers such as American Red Cross, American Heart Association, and National Safety Council. 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.sfiopfpa.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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other	103	525	80	600
TOTALS	103*	525*	80*	600*

* Records do not indicate job classification.

The summary figures above reflect the actual and estimated 1) number of individuals who successfully completed the core training requirements of the PA 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.

During 2015 the PA SIC conducted 58 training programs (34 core and 24 CE), through which 546 individuals completed 764 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 310 additional training units completed by 194 individuals (82 additional) through approved outside training opportunities. At the end of 2015, Pennsylvania had 742 individuals with a current PA SFI training status. This number has remained fairly steady in the last several years

It should be noted that the PA 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. However, intuitive estimates place the percentage of the state's wood produced by fully trained Professional Timber Harvesters fairly high. U.S. Census data indicates that Pennsylvania had 676 employees of logging operations in 2010. While this might not be completely inclusive (i.e. may not capture all of the single proprietors, part-timers, and perhaps even some sawmill logging crews), it does give some comparison to the number of individuals with current PA SFI training (742 at the end of 2015). Additionally, previously mentioned requirements by DCNR, Certified SFI Program Participants, and others to use PA SFI trained Timber Harvesters bolsters this estimate.

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.

LOGGER TRAINING AND EDUCATION SUMMARY
SFI PROGRAM PARTICIPANT NAME: Quebec SIC
PROVINCE: Québec

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Program

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

On private land many Marketing Board and Agency are promoting **Wood Producer Training Programs** (*Formation entrepreneur accrédité*)

Quebec SIC posted on his web site training modules to support the program for qualified wood producer. This training program will be updated in 2016 to meet all the requirements listed in the SFI 2015-2019 Standards.

Required

Courses: In addition to the SIC Program for qualified wood producer, each program participants have annual training session associated with ISO 14001 and SFI to make sure that every worker involve in the operation has the knowledge and are qualified. For example, Domtar trained their logger every year on Health and Safety, environmental concern and forest certification.

Sample of course of program participant:

- Best management practices (*Saines pratiques*)
- Training on SFI Principles (*Formation de base SFI*)
- Annual training for loggers (*Induction_coupe*)
- Annual training for road construction (*Induction_construction_chemin*)
- Annual training for truck drivers (*Induction_transport*)
- Annual training for silviculture workers
- Annual training for truck drivers
- Field visits to small woodlot owners (education)
- Transportation of dangerous goods
- Health and Safety

In 2016 the Quebec SIC will evaluate Program Participant's Training program, and other programs available, to qualify them to the SIC Wood Producer Training Program.

Production

Data:

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

On private land since there's no unique mandatory program, just over 50% of the wood from private land is coming from fully trained logger.

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

In 2015, Quebec SIC has centralized in his web site the information about qualified logging professional trained by Program Participants.

Program participants provide the list of trained worker after each training session.

This information is in the intranet, available upon request.

Continuing

Education:

Each year program participant offers annual training, and maintained a registry of participants at those trainings. In those trainings if there have been any changes in the legislation or in the requirements, it is discussed during the session.

Program participants work in collaboration with Marketing Board and Forest Agency to make audit with producers and contractors, and visits to small woodlot owners.

Additional Training

Available:

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

For employees and contractors:

- Ecosystem-based management
- Field exercise on Emergency Situations (Fire, Spill, Accident)
- Safe driving
- Eco-driving
- First aid

For small woodlot owners:

- Best Management Practices
- Basic SFI training

Program

Funding: SIC internal funding

Training

Modules: Quebec SIC training program include specific modules on:

- Sustainable Forest Management Certification
- Quebec SFI Implementation Committee
- Sustainable Forestry Initiative Standard
- Qualified Logging Professionnal
- Species at risk - Invasive specie
- Harvest, wildlife and site protection
- Access and water quality
- Reforestation and aesthetic
- Dangerous goods
- Legal requirements

The Training Program is available on the SIC website (<http://www.sfi-quebec.org/informations/formations/>).

In 2016, the Quebec SIC will review the program to make sure it is still accurate with the 2015-2019 SFI Standard.

The Quebec SIC will also finalize the e-learning platform for its Wood Producer Training Program. Every wood producer who wishes so will be able to go on-line, register and do the training module. He will have to answer a few questions at the end of each module to make sure he read and understood the information.

With this registration process the Quebec SIC will always have an up to date list of trained producers.

Complete training summary details on the next page.

Training Summary

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	280	73	288	249
Logging Employees	992	650	1029	694
Foresters	369	42	86	293
Landowners	646	12	8	582
Government Officials	89	0	3	121
Students	14	37	24	52
Other (silviculture workers, TLGIRT, suppliers) ¹	300	73	136	176
TOTALS ²	2690	887	1574	2167

¹ The Ministry of Natural Resources is now responsible for all silvicultural work on public land.

² Combined totals of Domtar, WestRock, Norbord, PF Résolu, Louisiana Pacific, Groupe Forestra and Rémabec.

**SOUTH CAROLINA
LOGGER TRAINING AND EDUCATION SUMMARY**

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

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

The TOP 2-Day course provides the latest information of timber harvesting, safety, business and environmental regulations. The course is tailored primarily for loggers, job foreman, contractors, and foresters.

In order to become TOP Trained in South Carolina, an individual must successfully complete the TOP 2-Day course. Upon completion, the individual will need to maintain his or her status by fulfilling two annual requirements:

1. All participants are required to view the most current TOP Annual Update training material. Viewing sessions will be offered and coordinated by approved facilitators (either registered foresters or individuals approved by the TOP Committee). Participants are encouraged to contact their mill representative, forester or procurement manager for specific details about training sessions. Participants are encouraged to plan ahead and locate a training session close to home or the job to avoid costly travel and time away from work. Publicized training sessions can be found on the SCFA website <http://www.scforestry.org/apps/calendar/>
2. All participants are required to pay an \$80 annual fee to maintain current TOP Trained status.

If an individual does not complete both of these annual requirements by the June 30th deadline, that person will have to repeat the TOP 2-Day course in order to be reinstated.

Required**Courses:**

The TOP-2 Day course is an intensive two-day training program that was offered two times in Columbia, SC and once in Georgetown, SC and produced 133 graduates. The primary topics covered 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 include individuals from the following agencies or companies: SC Forestry Commission, Clemson Extension, SC Timber Producers Association, Forestry Mutual, Davis-Garvin Agency, Inc., a TIMO representative, two paper mill representatives, and SC State Transport Police.

Other:

Total training accomplishments to date include: 3,267 graduates of the TOP Program. In 2015, SC had 1,058 individuals on the TOP Trained List.

Training**Summary:**

Participants*	Actual Number Completing Entire LT&E Program in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	23		
Logging Employees	53		
Other	57		
TOTALS	133	130*	900*

* Records do not indicate job classification

Production

Data: Estimated 90-95% 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 SC Forestry Association.

Training

Modules: 2015 TOP Annual Update Facilitators Guides were available and could be purchased from the SC Forestry Association for \$50. No online training modules have been developed or offered.

2013 TOP Annual Update Topics:

- Stream Crossings
- Invasive Plants & Animals
- Cultural, Ecological & Geological Sites
- Overhead Hazards: Slips, Trips, Falls

2014 TOP Annual Update Topics:

- SFI Program (Overview)
- Stream Classification
- ESA, T&E Species, G1 and G2 Rankings
- Equipment Fire Safety

2015 TOP Annual Update Topics:

- SMZs
- Forestry Aesthetics
- Storm Damage & Salvage Safety
- Green Light to Home (Trucking)

2016 TOP Annual Update Topics:

- Stream Crossings
- Biodiversity
- Powerline / Gas Line Safety
- Public Outreach

**TENNESSEE
LOGGER TRAINING AND EDUCATION SUMMARY**

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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 starting in 2016.)

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 2016 will show an expiration date of 12/31/18, even if they had taken the class(es) in early 2016). 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.

Dr. Wayne Clatterbuck and Dr. Adam Taylor (Univ. of Tennessee) introduced a new CE class in 2013 that highlighted wood products certification, treatment for Emerald Ash Borer, Thousand Cankers Disease, and Biomass Harvesting. 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.

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, Stream Delineation Workshop, Forest Roads/Water Control, Log Bucking taught by UT Extension.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors Logging Employees Other				
TOTALS	57	400**	50*	410**

*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.

TEXAS
LOGGER TRAINING AND EDUCATION SUMMARY

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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.

*Must be taken every two years.

Continuing:

To maintain the Pro Logger status, each must have at least six (6) hours Education: of continuing education annually plus a current Safety certificate. Several opportunities for continuing education were available throughout the year, including Stream Crossing workshops.

Other: In 2015, two rounds of core logger training workshops were held.

Database: The Texas Logger Training database is published at www.texasforestry.org.

Training Summary:

Participants	Actual Number <u>Completing Entire</u> LT&E Program in 2015	Actual Number Attending At Least One Core Course in 2015	Actual Number Attending At Least One Continuing Ed Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016**
Loggers	62	2	394	85	456
*Other	2	0	76	2	80
TOTALS	64	2	470	87	536

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

**Includes CEU

Production: In 2014, 439.8 million cubic feet of pine and 91.4 million cubic feet of hardwood were harvested in Texas for industrial consumption, a small increase over last year’s harvest. 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 2015.

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

Modules: Safety, Business Management, and Forestry BMPs Refresher are also offered online.

**VIRGINIA
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Scott Barrett, Extension Specialist, Forest Operations and SHARP Logger Program Coordinator**
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Department of Forest Resources & Environmental Conservation (0324)
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Blacksburg, VA 24061
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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 - Four education modules (1.5 hours each). 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 and a demonstration of the use of topographic maps and other planning "tools" is followed by a field exercise where participants develop their own harvest plans. The BMP program segment is typically conducted on a recently harvested tract. Discussion topics include local, state and federal water quality regulations, the comparison of forestry to other non-point sources of pollutants and the Virginia Forestry BMP Manual. The participants, in small groups with the assistance of a professional forester, perform a BMP audit of the tract.

Continuing Education: SHARP Loggers must earn 12 hours of Continuing Education (CE) credits every three years in order to maintain current SHARP Logger status. Continuing Education programs are offered in a wide variety of topics, including:

- Trucking Safety Workshops
- GPS Workshops
- BMP Workshops
- Chainsaw Safety
- Gypsy Moth & Emerald Ash Borer Compliance Workshops

Training Summary:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	60	400	50	500
Logging Employees	35	150	50	200
Other	39	284	25	300
TOTALS	134	834	125	1000

Production

Data: Not Available.

Other: [Newsletter to Virginia Loggers](#) 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 Presenter and Adobe Captivate software: Viewers simply click on a link and the training module will start automatically.

Current Online Trainings Include:

- 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

**WASHINGTON
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Jerry Bonagofsky, President**
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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 12-31-15 a total of 880 individuals representing about 652 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

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 2015, WCLA trained about 1290 loggers in first aid, and provided safety training to over 600 employees.

**Training
Summary:**

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	19	31	18	30
Logging Employees	49	65	30	50
Other	14	28	10	20
TOTALS	82	124	58	100

Production

Data: 2.3 billion board feet produced by Master Loggers in 2015.

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 2015 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 2015)

**WEST VIRGINIA
LOGGER TRAINING AND EDUCATION SUMMARY**

Contact: **Frank Stewart**
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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 West Virginia Forestry Association, the West Virginia Division of Forestry, West Virginia University Forestry Extension and the Appalachian Hardwood Center 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 qualify as a certified logger:

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 West Virginia Division of Forestry.

BMP Training - More than twenty workshops are scheduled (typically one-two each month) rotating among the three West Virginia Division of Forestry 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 eight 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. WVFA cooperates in this program by periodically offering the Game of Logging, of which Level 1 is accepted for this initial training. Training sessions are four to eight hours in length.

Continuing Education

Courses:

West Virginia's Logging Sediment Control Act requires loggers to maintain a valid First Aid card and complete an additional eight "credit hours" of classes every four years to retain certification. Two of these eight hours must be in a "BMP Update" class and two hours must be in a "Safety Update" class. The Best Management Practices training modules continue to be updated and revised.

Current Training modules include:

- Best Management Practices Instruction
- Road and Operations Planning
 - Topographic Map Reading
 - Impacts of Soil Types
 - Positive and negative control points to use or avoid
- Safety
 - Chainsaw and Tree Felling
 - Equipment
 - OSHA Requirements
 - Fatality Assessment by WVU (This program has been terminated.)
- Quarantine Information from the Dept. of Ag. For Exotic Pests
- Sustainable Forestry Initiative
 - Sustainable Forestry
 - Endangered Species Endangered Species
 - Forestry Aesthetics

Training

Summary:

Participants	Actual Number Completing Entire LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors/ Logging Employees Others/Foresters				
TOTALS	150*	1326*	140*	1000*

*Records do not indicate job classification.

Production

Data: Not Available.

Other: In 2015, there were a total of 1074 timber licenses and 1454 certified loggers in West Virginia.

Program

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

Training

Modules: The webinar *“Invasive Species in West Virginia and Technologies for Loggers,”* sponsored by the WVU Appalachian Hardwood Center, the WV SFI Program and the WV Forestry Association (WVFA) is archived on the WVFA website (www.wvfa.org) where it can be viewed. There is no cost to watch the module, however non-WVFA members that request CFE credit must pay a \$5 fee.

In 2011, the WVU Appalachian Hardwood Center initiated a multi-day training program, *WV Greenup*, that provided participants with the WVDOP BMP training, Game of Logging Level 1, Industry Overview, First Aid, CPR and Bloodborne Pathogens training, OSHA Compliance for Loggers, Log Bucking Basics and Logging Equipment Operation Basics. Graduates of this program received their Certified Logger License.

LOGGER TRAINING AND EDUCATION SUMMARY
PROVINCE: WCSIC (British Columbia, Alberta and Saskatchewan)
Date: March 28, 2016

Contact: **Stephen Vinnedge, RPF**
Chair WCSIC Logger Training Sub-Committee
 1250 Brownmiller Road
 Quesnel, BC V2J 6N2
 Phone: (250) 992-0888

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 and WCB 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 for appropriate personnel

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 4 of the WCSIC Training Policy.

Program Funding: Each member company funds their 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 2015	Actual Number Attending At Least One Course in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016
Logging Contractors	609		600	
Logging Employees				
Foresters				
Landowners				
Government Officials				
Students				
Other				
*TOTALS	609		600	

** Combined totals*

**WISCONSIN
LOGGER TRAINING AND EDUCATION SUMMARY**

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**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 2016 SFI® Training Standard consistent with 2015. 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 2015, FISTA organized 36(4hr) C.E. workshops with attendance totaling 1,149. Currently for 2016, there are 51(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</u> <u>2015</u>	<u>Scheduled for</u> <u>2016</u>
BMP's for Water Quality	4	4
BMP's for Invasive Species	4	4
Chain Saw Safety	-	8
Chemical Spills on Logging Operations	2	-
Cross Training	-	-
D.O.T. Compliance	3	2
Emerging Hot Topics in Forestry	4	2
Emissions / Fuel Systems - Tier 4 Engines	1	-
Equipment Fire Prevention	2	-
Forest Management	-	-
Good Business = Good Stewardship	-	-
Hydraulic Safety & Lubrication	3	5
Maximizing Grade	2	3
National Forest Stewardship Program	1	2
OSHA for Loggers	2	2
Pesticide Applicator Training & Exam	1	2
QuickBooks	-	1
Regional Challenges in Forestry Operations	1	-
Silviculture & Timber Sale Marking	4	2
Smart Phone & Tablet Apps for Loggers	2	-
Tax and Business Tips	1	1
Successioning Your Business	-	2
Logging Tech and Business Solutions	-	1
NHI Influence on Timber Harvesting	-	3
Timber Economics	2	4
Going Batty (NLEB)	-	2
Red Cross 1 st Aid / CPR	-	4
A.L.E.R.T. 5 Logger Rescue	-	6
Wilderness Rescue	4	-

**Training
Summary:**

Participants	Actual Number Completing Entire Beginning LT&E Program in 2015	Actual Number Attending At Least One Course in 2015	Actual Number Attending Approved Electives in 2015	Estimated Number Expected to Complete LT&E Program in 2016	Estimated Number Expected to Attend Some Courses in 2016	Estimated Number Expected to Attend Approved Electives in 2016
Logging						
Contractors Logging						
Employers Other						
TOTALS	135	1172	638	100	1180	620

* 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.