



# **LEAF**

**Long-term Education About Forests**

**MAINE TREE FOUNDATION  
ANNUAL REPORT  
2017 - 2018**

## **Mission and Focus of the Maine TREE Foundation**

Forests are part of the fabric of Maine. In addition to sustaining the natural geological and biological systems, the forests link together and sustain a natural resource community made up of landowners, recreational users, loggers, foresters, mills, workers, and towns that have been interdependent for generations. The diverse uses of the forest and the sustainability of this community are critical to the ecological, economic, and social health of Maine.

***Mission: The Maine TREE Foundation educates and advocates for the sustainable use of the forest and the ecological, economic, and social health of Maine's forest community.***

This is accomplished through developing and sponsoring education programs for schools, government, media, and the general public. Partnerships within the forest community and support programs for forest owners, workers, and users will aid in the effort.

***The Vision of the Maine Tree Foundation: The public values and supports Maine's healthy forest ecosystems, forest professionals, scientific forest management, and sound public policies that sustain Maine's forest-dependent people and communities.***

Maine has one of the most sustainable ecological, economic, and social systems in the world, centered on our forests and forest communities. This system depends on maintaining the unique condition and synergy that results from predominantly private ownership, widespread public access, outstanding recreation values, and wood-based industries. Harvesting forest products is one of many forces influencing the constant state of forest renewal. Using renewable resources to meet society's demands has far less negative environmental impact than does production from alternatives. Maintaining this forest community will include both sustainable timber production and carefully targeted protection and enhancement of non-timber values.

### **Key Principles and Messages**

The role of Maine TREE is to provide accurate information about the forest community of Maine. The key principles that will form the foundation of our message are:

- Multiple use of most forests is essential for a sustainable forest community in Maine, including businesses that rely on forest products. This is in the public's interest.
- Multiple use includes timber harvesting, wildlife management, watershed protection, and all forms of respectful recreation – this defines the concept of “the working forest”.
- Wood is the world's most abundant renewable building material and much of the world's most abundant renewable source of fiber for paper products.
- Forests are not static, they are dynamic - loss of older trees (age, fire, storm, disease, and insect) and renewal of young trees is a completely natural and continuous process. Scientific forestry can mimic these natural processes.
- Harvesting is not the destruction of a forest. If done properly, it is a process of removing some trees and managing remaining trees and regeneration for the renewal of the forest.
- Forest management, wood-based manufacturing, and recreation form a powerful ecological, economic, and social system that meets the interests of both the citizens and visitors of Maine.

- Many families, businesses, and communities are dependent on, and sustained by, this natural resource-based industry. The forestry sector is the largest of Maine's manufacturing sectors and accounts for more of the value of Maine exports than does any other sector. Forest-based recreation adds millions of additional dollars to the state's economy.
- Private ownership and property rights to practice good forest management must be respected and protected.
- Logging and forestry should grow to be more highly respected professions.
- Regulation is seldom the preferred path to better management.
- Support and promotion of sound public policy is critical to the health and sustainability of the forest community.

### **Action Plan**

Maine TREE will work to accomplish the desired future condition expressed by its vision in a variety of ways, including:

- Establish a set of key principles and fact-based talking points that represent the values and message of Maine TREE (see above).
- Develop a stronger linkage of Maine TREE with the scientific expertise of the University of Maine, including encouraging the University of Maine System to continue to offer forest-related, for-credit continuing education courses for K-12 teachers.
- Continue to develop close partnerships with other organizations within the broad forest community such as Maine Audubon, Appalachian Mountain Club, SWOAM, Maine Math and Science Alliance, Maine Businesses for Social Responsibility, Maine Forest Service, Maine Forest Products Council, University of Maine and Cooperative Extension.
- Commit to ongoing contact and collaboration with key stakeholders and supporters.
- Develop educational messages and programs that support not only the health of the forest but also the health of the forest community.
- Provide education assistance in developing state policy that supports the forest community.
- Increase attention to informing the media, the legislature, and others who influence policy.
- Assure compatibility of PLT materials with this message.
- Identify target audiences and design programs to address each.
- Improve the understanding of forest use and move public perception about the forest products sector to pride and respect.

## **Ethan Bessey, Hallowell**

Ethan is the President of E.D. Bessey & Son and Bessey Development in Hinckley, ME and is the fifth generation of the Bessey family to own timberland and operate the family business in Maine. With roots in the state dating to shortly after the Revolution, the Bessey family has a long history of sustainable forest management, honorable business practices and community involvement. In addition to the family business and timberland, Ethan is the president of E.D. Bessey Lumber Products, LLC, a custom hardwood flooring and lumber brokerage that he started while living in Austin, TX. He was raised in Waterville and received a B.A. in Sociology from the University of New Hampshire in 1998. He and his wife Emily started the 501(c) 3 Hearts for Ezra Foundation to raise awareness and fight for a cure for Spinal Muscular Atrophy (SMA) which took their 8 month old son Ezra in 2013. The foundation raises money for SMA research and hosts community awareness events in central Maine. Ethan lives in Hallowell with his wife and two daughters and two West Highland Terriers.

## **Barbara “Barrie” Brusila, Warren – Secretary**

Barrie received her B.S. in Forest Management and her M.S. in Forestry from the University of Maine. She has been a consulting forester since 1980, working independently as well as for several employers before becoming a co-owner of Mid-Maine Forestry in 1995 with her husband Mitch Kihn (also a forester.) Mid-Maine Forestry has been certified by the Forest Stewardship Council as a Certified Resource Manager since 1998. Their business involves providing a variety of services for non-industrial landowners including individuals, families, towns, and land trusts. The work includes woodlot reconnaissance, forest management plans, timber inventory, timber marking, stumpage sale administration and supervision, and timber stand improvement. She works in cooperation with state and federal agencies in administering timberland cost-share programs. Barrie is on the Advisory Committee for Baxter State Park's Scientific Forest Management Area. She is a founding member, and was a Board member, and chair of the Board of the Forest Stewards Guild. She was on the steering committee of the Maine Forest Biodiversity Project and is a past president of SWOAM. She was a District Supervisor with the Knox-Lincoln Soil and Water Conservation District for 17 years.

## **William Cole, Sidney**

Willie and his brother, Don, founded Trees, Ltd. in 1986 as a conventional logging operation specializing in thinning. The company has grown from 2 employees to 5 full time and 2 part time and evolved from conventional to a fully mechanized operation. Trees, Ltd. has been the recipient of several awards, including CLP Logger of the Year, COFE Outstanding Contribution, MFPC Outstanding Loggers of Maine and FRA Regional Outstanding Logger. Willie and Lisa have been married for 29 years and have a daughter and 2 sons, the youngest of whom works full time with Trees, Ltd. Willie and Don share a passion for educating landowners, children and the general public on how a healthy forest and logging industry complement each other.

**Elizabeth Cushman, Pownal**

Beth is a Maine Licensed Professional Forester, earning her degree at the University of Maine. She also holds an MS in Science Education and a CAS in Educational Leadership. She is the former Executive Director of the Trust to Conserve Northeast Forestlands, overseeing the Northeast Master Logger Certification Program and two Forest Steward Council certifications. Presently she is the VP of Internal Operations at Maine Custom Woodlands. Beth is also involved in the Forest Resources Association and is a member of Phi Delta Kappa and Phi Kappa Phi, University of Maine Chapter, and the Society of American Foresters.

**Alexander R. Ingraham, Hampden, Vice-President**

Alex currently works for Pingree Associates Inc. of Bangor, Maine. He received his B.S. in Forest Management from the University of Maine, and his M.B.A. at the College of Charleston in South Carolina. At Pingree, Alex investigates new business opportunities while monitoring current ventures for Pingree's clients. Prior to joining Pingree Associates, Alex worked in Northern California as a consulting forester writing and implementing timber harvest plans. He is currently an intern forester in the State of Maine, and a member of the Society of American Foresters.

**Charles Ipcar, Richmond**

Charlie was born and raised in mid-coast Maine and graduated from Bowdoin College with a BA in Chemistry. From 1965 to 1968 he worked as a Peace Corps Volunteer in Ethiopia teaching science and geography. In 1974 he received his PhD in Urban Geography from Michigan State University. After teaching in Michigan, working as a staff person at an alternative energy demonstration center, and working at the Michigan Department of Labor, he applied for and received a National Science Foundation fellowship to study the implementation of the State's new Anti-Redlining Mortgage law. He returned to Maine in 1982 and earned a living in the Portland area buying and renovating older buildings. He retired to Richmond in 1994 and is now developing a career as a nautical singer and songwriter. Charlie served as a board member of the Holt Woodland Research Foundation for about 20 years.

**Keith Kanoti, Old Town**

In his current position as Forest Manager for the University of Maine, Keith oversees the management of all forestland owned by the University of Maine System and the University of Maine Foundation. Prior to this he spent 10 years with the Maine Forest Service as a district forester in Jonesboro and later as the Maine Forest Service water resources forester. He has been an active member of the Maine Sustainable Forestry Initiative state implementation committee for many years. Keith earned a BS in Forestry from the University of New Hampshire and an MS in Forestry from the University of Maine.

**Kathryn (Katie) Manende, Alfred, Maine**

Katie works for the vegetation management division of Central Maine Power Company, and is the owner of her own forestry consulting business, Maine Woods Forestry. She received a BS in both Forestry and Wildlife Ecology, and a MF focused on forest certification from the University of Maine. Katie also holds licenses in the State of Maine as a forester, arborist, and pesticide applicator, in addition to being a certified forester. Katie is a member of a number of professional societies including the Maine Arborist Association, National Wild Turkey Federation, American Tree Farm System, Maine Tree Farm Committee, and has been heavily involved with the Society of American Foresters, holding numerous positions within the organization.

**Marcia McKeague, East Millinocket – President**

Marcia is Vice President of Maine Woodlands Operations of Acadian Timber and President of Katahdin Forest Management LLC. She is responsible for the overall operation of the business which owns 300,000 acres and 100 leased properties in the Katahdin Region. She has a B.S. in Forestry from the University of Michigan and a Masters of Forestry from Michigan State. She has been a member of the Society of American Foresters since 1977 and a Maine Licensed Professional Forester since 1981, when she joined Great Northern Paper. She was formerly a Governor-appointed public member of the Land for Maine's Future Board from 2000-2007 and a Vice President of the Board of the Center for Woodlands Education.

**Sarah J. Medina, Dixmont**

Sarah is Land Use Director for Seven Islands Land Company and received her B. S. in Forest Management from the University of Maine. Her areas of expertise are recreation, regulation, taxation and ownership issues. She administers recreational management programs on lands managed by Seven Islands, including commercial and recreational leasing, and licensing for short-term land use activities. Providing public accommodation through North Maine Woods, Inc. has been a particular interest for over forty years. An important aspect of her work is contact with recreational users and user groups including the Maine Professional Guides Association, Maine Snowmobile Association, Sportsman's/Forest Landowner Alliance and others.

Sarah also coordinates environmental regulatory activities and maintains land ownership and timberland taxation records, often working with state agency representatives in the Departments of Agriculture, Conservation and Forestry (particularly Land Use Planning Commission) and Inland Fisheries and Wildlife. She serves on the Boards of Directors of Girl Scouts of Maine and The Rangeley Lakes Heritage Trust, and chairs the Maine Board of Licensure of Foresters. In 2015 she received the University of Maine School of Forest Resources' Distinguished Alumni Award, recognizing outstanding professional achievement and sustained contributions to the forestry profession.

**Frederick H. Morton, Jr., Auburn – Treasurer**

Fred is Executive Vice President and Regional Manager of Farm Credit East, ACA, where he is responsible for all customer service and lending activities to Maine's farms, fishing and forestry businesses. He received a BS in Agricultural Economics from the University of Maine. Fred is active in the Sixth Street Congregational Church, the Maine Forest Products Council, Forest Society of Maine, a member of the University of Maine's Board of Agriculture and a panel member for Farms for Maine's Future program. Fred enjoys camping, hunting, fishing, sports and "the great Maine outdoors."

**Stephen Shaler, Old Town**

Stephen Shaler is a Professor in and the Director of the School of Forest Resources, University of Maine. He received his BS and MS degrees in Wood Science & Technology from Colorado State University and a PhD in Forest Resources from Pennsylvania State University. He has been on the faculty at Penn State, Michigan Technological University, and for the past 25 years - the University of Maine. His research and teaching interests have focused on composite materials, including their processing and mechanical performance. Other project activities include the areas of Cross Laminated Timber and Life Cycle Assessment of building products. He was a founding member of the Advanced Engineered Wood Composites Center and the Forest Bioproducts Research Institute.

## Maine TREE Foundation Board of Advisors 2018

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### Staff

#### **Sherry F. Huber, Executive Director, Retired**

Sherry is the former Executive Director of the Maine Waste Management Agency. She served in the Maine House of Representatives for six years and is a Corporator of Maine Health. She chaired the board of Mainewatch Institute and is a former trustee of the College of the Atlantic. She is a former director of the Land Trust Alliance and NatureServe and currently serves on both their Boards of Advisors. She is a former President and current member of the Forest Society of Maine and a member of the University of Maine School of Law Board of Visitors and the Leadership Council of the Yale School of Forestry and Environmental Studies. She is an Advisory Trustee of the Maine Audubon Society and a Trustee Emerita of Waynflete School. She is an Honorary Director of the Friends of Casco Bay. Sherry is a graduate of Smith College.

#### **Henry L. Whittemore, Executive Director**

Henry has more than twenty-five years of timberland management experience, with a particular focus on North America, Australia, New Zealand, China and Eastern Europe. Prior to joining Maine TREE, he served as senior director of an international timberland investment fund based in Boston and Northeast Regional Manager of a Boston-based TIMO that managed lands in Maine, New Hampshire, Vermont and New York. Henry has served on many non-profit Boards in Maine – including the Maine Farmland Trust, Forest Society of Maine, Center for Woodland Education, the Northern Forest Center, Kennebec Land Trust and the Maine Forest Products Council. From 1978-1981, Henry served in the United States Peace Corps in the Kingdom of Tonga as an agro-forestry volunteer. He holds a BA from Williams College and a Masters in Forestry from Yale University, School of Forestry and Environmental Studies. He and his wife, Darcy, have lived in Readfield for 28 years and have two grown children. Together, they own and manage a 62-acre woodlot in Mount Vernon.

#### **Patricia A. Maloney, Project Learning Tree State Coordinator**

Pat graduated from Loyola University and has a Masters Degree in Education from USM. She has worked 14 years as a teacher in MSAD 75, Topsham and taught grades 4-6 at Bowdoin Central School. She has worked summers as an intern with Friends of Casco Bay, participated in the National Park Service Earthwatch Expedition into America at Acadia National Park, participated in the Maine Math and Science Academy at Bates College and served on the Friends of Merrymeeting Bay Board of Directors.

#### **Cathy Jo Herlihy, Administrative Assistant**

CJ grew up in Skowhegan and is a Skowhegan High School graduate. She has worked in the administrative field for 30 years; this is her second stint working for the TREE Foundation. She worked for TREE for over six years; she ran the office from her home when her son was young. She previously worked for Family Planning Association of Maine and the Maine State Nurses Association. She lives in Winslow with her husband.

## **Long-Term Education About Forests (LEAF) Executive Summary**

The Maine TREE Foundation's Long-Term Education About Forests (LEAF) Program is entering its twenty-first year in 2018. During each of the past twenty years we have significantly expanded the program to include both new elements and new supporters. In addition to wood products companies and large landowners we now include a growing number of small businesses and those from outside the forest products sector. We have attracted a significant number of public and private foundation grants and have forged a strong partnership with the Maine Forest Service in support of Project Learning Tree (PLT).

In order to be truly effective, LEAF will be adaptive and evolutionary. LEAF gets Maine people into the forests where they can see for themselves how industry, wildlife, recreation and environmental quality interact. LEAF on-site tours are focused on educators and media representatives, those who have the ability to pass on what they learn to others, a multiplier effect which makes their first-hand experience efficient and effective.

LEAF brings the forest to the people who can't go there when their lives are too busy with everyday activities or the distances are too great to travel. LEAF is bringing the forest indoors with Project Learning Tree in classrooms from kindergarten through high school and with the Envirothon for high school students. LEAF is bringing the forest outdoors in locations near schools and in communities with natural areas easily developed as Outdoor Classrooms and Demonstration Forests. People of all ages and from all walks of life will find an opportunity to learn both academic and forest management skills in these convenient settings close to home.

We need to employ both traditional and new forms of communication to share information with the public. The Maine TREE Foundation website, [www.mainetreefoundation.org](http://www.mainetreefoundation.org), links to dozens of Maine and national environmental education organizations, public and private; this helps the person with a question to receive answers from the appropriate source. Magazine and news articles are accessible electronically as are curriculum materials, reports and on-line newsletters, to name only some of the possibilities. Maine TREE and its partners in Forests for Maine's Future feature an electronic newsletter and regular forest news updates on their website. Please visit [www.forestsformainesfuture.org](http://www.forestsformainesfuture.org) to view and subscribe free of charge.

The LEAF program will evolve and be maintained over many years to be truly effective. Educators speak of lifetime learning and recognize the need for ongoing and updated information to be made accessible in ways that are easy and convenient for the user. The successful program over time will be one that can provide credible, interesting and useful information about forests to a wide variety of Maine audiences. The Maine TREE Foundation pledges to meet this need now and in the future, with your help.

LEAF's origins arose from the realization that Maine people were not getting accurate information about the Maine forest resource. The Maine TREE Foundation, with support from the Maine Forest Products Council, the Maine Pulp and Paper Association, Maine Woodland Owners, the Maine Tree Farm Committee, Project Learning Tree, the Maine Forest Service, the Certified Logging Professional Program and many others established an education program to inform the public about the value of this resource.

Since the Spring of 1998 we have built the LEAF program to include the following elements:

- A full time Project Learning Tree (PLT) State Coordinator makes PLT preK-8 and Secondary Environmental Education Curricula available throughout Maine elementary and high schools.
- Teachers' Tours introduce Maine educators, formally and informally, to the forest and the forest products industry first hand in four-day summer seminars that incorporate Project Learning Tree workshops.
- Hands-on learning materials in "Tree Trunks" for use in the classroom. Tree Trunks are kits that include forest tools like prisms and increment borers, leaf identification keys, paper making kits, books, posters and videos.
- An interactive CD-ROM, Maine Forests Forever Green, which explains the importance of forests and forest products in our lives. Wildlife habitat, recreation, wood products and forest management are featured.
- The development of Outdoor Classrooms modeled after the acclaimed Fort James Outdoor Classroom and Demonstration Forest in Orono.
- Active forest management assistance for small landowners in collaboration with the Maine Tree Farm Committee and Maine Woodland Owners.
- A Maine TREE Foundation website, [www.maintreefoundation.org](http://www.maintreefoundation.org), for information about our core programs: LEAF, PLT, Tree Farm and Certified Logging Professionals, offers extensive links to forest-focused environmental education organizations in Maine and nationwide.
- Special Forest Tours to introduce members of Maine's conservation community and others to the Maine forest as a resource of many values.
- A partnership with Northern Woodlands magazine and its education program which involves many Maine teachers' use of the magazine in connection with PLT activities for their students.
- Coordination of PLT and our Teachers' Tours with the complementary program run by the Envirothon.
- Formation of a working group, Forests for Maine's Future, comprised of Maine TREE, the University of Maine's Center for Research on Sustainable Forests, Maine Woodland Owners and the Maine Forest Service. Its mission is to promote a greater understanding of all the values of Maine's forests. Visit [www.forestsformainesfuture.org](http://www.forestsformainesfuture.org).
- Support and sponsorship of comprehensive training of loggers and recognition of their professionalism through the Certified Logging Professional Program.
- Continued support for the extensive research program carried out at the Holt Forest in Arrowsic and the expansion of public outreach on the property to encourage education about the forest and forest management for small landowners.
- Production and distribution of a Maine version of "This is My Office" video to encourage young people in particular to consider the logging profession as a career.

## **Long-Term Education About Forests (LEAF) 2018 Action Plan**

The Maine TREE Foundation Long-Term Education About Forests (LEAF) program is designed to increase public understanding of, and appreciation for, Maine's 17 million acres of forest. LEAF encourages recognition of and respect for all forest values including wood production, recreation, wildlife, aesthetics, soil and water quality, and biodiversity of plant and animal species. Through greater understanding and awareness, the public can help form and support responsible natural resource policies.

The LEAF program is entering its twentieth year. Our work and experience to date continues to demonstrate how much difference an effective well constructed and delivered plan can make in the public's understanding of forest related issues. Public and private funders alike have committed to ongoing support for this education effort. The following sections describe the program's components:

### **THE HOLT RESEARCH FOREST**

The Maine TREE Foundation began its relationship with Holt Research Forest and University of Maine College of Natural Sciences, Forestry and Agriculture in 2014 when it merged with the Holt Woodlands Research Foundation. Since 1983, Holt Research Forest has been the site of a long-term oak-pine forest ecosystem study assessing the changes in the forest over time and its response to forest harvesting. The research will be in its 36<sup>th</sup> consecutive year of data collection in 2018.

Since 2014, Maine TREE has constructed an outdoor classroom and a parking area to provide Project Learning Tree activities for area schools and public outreach and educational activities on the property. We have also established a Forest Inventory Growth (FIG) Plot on the property, provided a "Tree Trunk" of educational materials for student use and completed an in-depth forest management plan for the Holt Forest.

The University of Maine research team is currently working in cooperation with Maine TREE on a Strategic Plan, funded by a grant from the National Science Foundation, to help with the development and updating of a long-term research and development plan. Maine TREE is now able to assume the research component which our founders had hoped to undertake and is now working to fully integrate Holt Research Forest within the broad range of activities it has long been engaged in.

### **TEACHERS' TOURS**

**The Model:** Our Teachers' Tours are modeled after the highly acclaimed and successful Temperate Forest Foundation (TFF) Maine woods tours conducted in 1997. Virtually all participants declared the experience "eye opening" and suggested it would definitely influence the perspective teachers offer students about the natural world.

**The Focus:** The TFF tours were for teachers from all over the country. LEAF's focus is on Maine educators. We use forest field experience to introduce teachers to the complexity of natural resource issues and provide them the tools to help their students make more intelligent, informed decisions. Participants visit large industrial and small tree farm type ownership and management systems. They experience the management, harvesting and processing of forest

products with visits to both pulp & paper mills and sawmills. The teachers see how outdoor classrooms can be designed and used as a window to the forest and an opportunity to discuss forest management choices and results.

**The Outreach:** Teachers use the information, tools and strategies presented to help their students develop their own perspective on forest resource issues. Each teacher reaches many students who in turn will reach peers, their parents and other adults with the material they see and the information they learn. This multiplier effect will expand and further educate, inform and generally raise levels of awareness about Maine's forest and the economy and environment it supports.

**What's in it for the Teachers?** The program is designed to provide the continuing education credits teachers must have to stay current. The materials and learning systems meet Maine's requirements for standards based teaching program. Each teacher is exposed to the award winning Project Learning Tree environmental education curriculum and given the tools and training necessary to use the curriculum in their classrooms. The PLT curriculum is a ready-to-use curriculum, designed to serve as a window to the natural world. Participants are introduced to numerous Maine-centric materials designed to complement and enhance the PLT curriculum with practical tree identification, measurement and analysis equipment and information.

**The Plan:** We run four-day tours for 20-30 teachers each. Expert hosts assist with each forest or mill visit. Landowner and industry representatives, natural resource management professionals, educators and local community representatives participate in each tour.

**The Audience:** The audience is preK-12 teachers with an emphasis on Grades 6-12. Science, Social Studies, Language Arts and Math teachers are specifically encouraged to attend, as are non-formal educators. We encourage schools to send a team of teachers who can support each other in the subsequent use of the PLT activities and modules. To date over 1,150 teachers from pre-Kindergarten through Grade 12, as well as non-formal educators such as scout leaders and adult education specialists, have attended Teachers' Tours.

**Marketing:** We use direct mail and the Internet to encourage all school districts to participate. LEAF supporters are encouraged to invite and sponsor specific teachers and administrators. Existing PLT facilitators are asked to help spread the word among their colleagues.

Teachers receive CEU credits and contact hours for their participation. Recently college credit has been made available on selected tours by USM and University of Maine, Orono faculty. On their written tour evaluations, teachers indicate a high degree of satisfaction with the quality and balance of information presented. The evaluations received from the teachers and comments from tour guides and other professional participants proved the 1998 - 2017 tours were everything they had hoped for and more. We will conduct two more tours in 2018.

**Attraction:** Forestry is an important current events issue. Participants will have a leg up in their understanding of the resource and associated issues. We are providing a world class educational experience for which participants will receive professional credit. Tours are run in different areas of the state so that teachers from all over Maine will have an opportunity to either participate close to home or in an area of particular, personal interest.

We structure four-day tours in the woods and at the mills for Maine teachers to meet and learn from professional foresters, landowners, loggers and wood products manufacturers. Each tour features a PLT workshop, exposure to different types of forest management, time to visit wood processing facilities, and plenty of time for discussion. The tours may include a visit to an

Outdoor Classroom where the teachers can utilize practical mathematics components of the PLT curriculum and engage in hands-on learning with foresters and forestry tools.

### **PROJECT LEARNING TREE COORDINATOR**

Maine TREE is the sponsor of and has had great experience with Project Learning Tree, a nationwide, award winning environmental education curriculum focused on using the forest as a learning tool. Since the summer of 1998, we have employed a full-time PLT state coordinator to work with teachers, scout and youth group leaders, home-schoolers and other non-formal educators who wish to use the PLT curriculum. In 1999 the PLT, WET and WILD curriculums were correlated with the Maine Learning Results in five content areas: Math, Science, Social Studies, English and Visual/Performing Arts. This correlation resulted in the increased use of PLT, WET and WILD curriculums by teachers and other educators throughout the state. PLT has trained teachers in over 300 Maine schools and sixteen colleges and universities since 1999.

Teachers' Tour participants and other PLT workshop trained educators will continue to be provided with all materials and follow-up necessary to support their use of the Project Learning Tree curriculum in the classroom throughout the year. PLT has reached over 4,200 trained teachers, community leaders and resource professionals who have taken PLT workshops over the last nineteen years.

### **FOREST INVENTORY GROWTH (FIG)**

The Forest Inventory Growth (FIG) program was designed by Maine foresters, teachers and university professors in 2002 in response to the need for getting students outdoors and collecting data about the Maine woods. Expanding upon the National Project Learning Tree *Forest Ecology* guide the FIG protocol, website and methods follow the US Forest Service Forest Inventory and Analysis Program (FIA). FIG data provides information needed to assess school forests, land trust properties and tree farms with an information rich website for student collected data and a capacity for Maine schools to compare findings with other Maine schools.

The Forest Inventory Growth Project provides training for Maine middle and high school teachers to use the FIG project with students; establishes FIG plots throughout Maine's bioregions; provides a data collection protocol; and communicates and publishing findings.

### **TREE TRUNKS, CURRICULUM GUIDES, TRAINING**

All former Tree Trunk supplies and educational materials that complement and extend PLT curriculum are available to educators at no cost. As PLT involves teachers in more school districts, we provide these hands-on educational opportunities available at the Maine PLT Augusta office. Through PLT, Maine TREE also offers teachers up to date curriculum guides, correlation materials and continued training to stay current with new developments.

### **OUTDOOR CLASSROOMS**

Outdoor classrooms are hands-on, "muddy boots" opportunities for environmental education about Maine's forests. Each site is uniquely constructed to tell the forest management story based on that specific site's characteristics. Students and teachers enjoy the opportunity to learn and apply the art and science of forest management and all of the wildlife and other natural resource management considerations that go into the decision matrix.

Teachers who go on Teachers' Tours are unanimous in their praise of Outdoor Classrooms. The

Outdoor Classroom at the China school presents a great demonstration of how math and science in particular can be more effectively taught in an outdoor setting. They see potential application for social studies, English and other subjects as well, where use of the natural environment can enhance the learning experience. We continue to identify numerous locations adjacent to schools, scout headquarters, town forests, or appropriate public or private land for Outdoor Classrooms.

Maine TREE has worked with partners to construct Outdoor Classrooms at Camp Roosevelt Boy Scout Camp in Eddington, the Maine Wildlife Park in Gray, the Molly Ockett Middle School in Fryeburg and the Massabasic Forest in Alfred. Other projects and partners include the Whitney Memorial Forest in Gray with the Maine Woodland Owners, Baxter Woods in Portland with the Portland Department of Parks and Recreation, the Alden property in Gorham with the landowner and the University of Southern Maine.

The Learning Shelter constructed at Laudholm Farm in Wells was dedicated on Earth Day, 2006 and an Outdoor Classroom at Bliss Woods in Freeport was completed with our partner, New England Forestry Foundation, in 2007. We collaborated with volunteers at the Bird Farm adjacent to Houlton High School to build an Outdoor Classroom in 2008. Our most recent Outdoor Classroom was completed in 2016 at the Holt Research Forest in Arrowsic.

### **FORESTS FOR MAINE'S FUTURE (FMF) PROJECT**

Maine TREE joined with the University of Maine's Center for Research on Sustainable Forests, the Maine Woodland Owners and the Maine Forest Service to launch Forests For Maine's Future, an ongoing project to help promote greater public awareness of Maine's forests and their importance to the state's economic, social and environmental health.

Starting in 2006, the collaboration encouraged print and broadcast media coverage of forest-related topics such as hurricane-resistant wood composites being developed at UMaine, Orono, and Outstanding Logger Awards. The group also sponsored a day-long Forestry Fair in 2006, 2008 and 2009 in Portland.

In 2007 Forests For Maine's Future established [www.forestsformainesfuture.org](http://www.forestsformainesfuture.org), to provide a platform for a professionally written free monthly electronic feature article about different aspects of the Maine forest. Currently, some 5,000 readers subscribe and we are working with a group of forest-oriented organizations to attract interest from a wider audience.

### **MAINE WOODLAND OWNERS PROGRAM**

More than 100,000 Mainers collectively own over eight million acres of Maine's forest as small woodlots, between 10-2,000 acres. Only about 3,000 of these individuals are active in either the Maine Tree Farm program or the Maine Woodland Owners. Few woodland owners take advantage of professional forestry expertise to help them actively manage their property whether it be for wood, wildlife or to plan for integration of all the natural resources present in their woodlands. Lack of awareness and planning sometimes leads to poor resource management decision making. Our first step in addressing this education and awareness need was to survey and subsequently understand the real and perceived barriers preventing more professional planning for these smaller woodland properties.

Tree Farmers and small landowners who join Tree Farm are now eligible for certification based on an inspection and planning program that integrates all aspects of water, wildlife, wood and recreation into the land use planning process.

Maine TREE also actively participates in the Maine Healthy Forests Initiative, working with many organizations in an initiative led by the Maine Forest Service effort to implement strategies that lead to active management on southern Maine Woodlands.

### **WOODLAND STEWARD PROGRAM**

The Woodland Steward Program, an on-line, interactive program aimed at helping small woodland owners get the most enjoyment out of their land, was launched in September, 2012. Maine TREE, SWOAM and New England Forestry Foundation developed this curriculum as a resource for landowners seeking to learn more about their land and ways to actively manage it for long-term stewardship. A sample lesson can be previewed at [www.Woodland-Steward.org](http://www.Woodland-Steward.org).

### **MAINE TREE WEBSITE**

Maine TREE's website, [www.mainetreefoundation.org](http://www.mainetreefoundation.org) contains information about our core programs and an extensive listing of environmental education organizations with a focus on the forest. The website is updated on a regular basis and contains pages detailing Project Learning Tree workshops and activities and the Certified Logging Professional Program. It is linked to the Maine Tree Farm Committee website and through it to the National Tree Farm Committee website. It is also linked to [www.forestsformainesfuture.org](http://www.forestsformainesfuture.org) and [www.keepingmainesforests.org](http://www.keepingmainesforests.org). The growth of the internet has made it clear that this is where present and future generations will get their information. Maine TREE's motto, "A thriving forest is rooted in understanding", will be carried out by making it easy and convenient for the public to access many sources of information about Maine forests through our website and its extensive links.

### **ENVIROTHON**

The Envirothon, a highly acclaimed national natural resource problem-solving competition for high school students, compliments the Project Learning Tree High School curriculum materials. It is similar to the Olympics of the Mind, but focused on soils, wildlife, forestry, aquatics and a current national environmental issue every year. The PLT Coordinator works with Envirothon faculty volunteers, offering PLT workshops to them and forestry materials to its program.

### **FOREST BIOPRODUCTS RESEARCH INITIATIVE**

Maine TREE partnered with the University of Maine to conduct outreach for the National Science Foundation's Experimental Program to Stimulate Competitive Research (NSF EPSCoR). The University's Forest Bioproducts Research Initiative (FBRI) made it possible for Maine TREE to offer workshops to teachers around the state which introduced the subject of bioproducts such as wood composites and biofuels from refined cellulose in the context of risk assessment, forest management and sustainability. We developed a website for five bioproducts lessons for use in the classroom at [www.maineForestbioproductslessons.org](http://www.maineForestbioproductslessons.org). We will continue to offer Teachers' Tours which include information on bioproducts and renewable energy use. We will work to inform educators and their students regarding career opportunities for jobs in this higher value-added, emerging field.

## **CONSERVATION OF WORKING FOREST TOURS**

Building on the successful model of our Teachers' Tours, Maine TREE will continue to offer tours with conservation organizations such as the Forest Society of Maine and The Nature Conservancy in Maine and interested smaller land trusts. We have visited America's Great Outdoors (AGO) projects that FSM and TNC have worked on, featuring topics like stewardship of working forests with an emphasis on stream connectivity and traditional wood product manufacturing as well as the revitalization of the Penobscot River.

Another subject of high interest and importance to Maine's economy and environment is the next generation of wood products. Joining traditional wood products such as paper and two-by-fours are biofuels, wood pellets and research into the use of sugars and acids in cellulose that will have twenty-first century application. This emphasis offers an opportunity to discuss the new generation of higher value forest products with a broad group of community leaders as well as demonstrating the concept of multiple use that has worked so well in Maine forests.

## **KEEPING MAINE'S FORESTS**

The Maine TREE Foundation serves as the Administrative Agent for Keeping Maine's Forests, a proactive partnership of large forest landowners, forest product industries, recreation, conservation, environmental and economic development interests. KMF's nearly 30 members believe that a healthy forest economy and a healthy ecosystem go hand in hand. Its goals are to:

- Maintain a stable or increasing flow of wood fiber;
- Promote healthy, sustainably managed forests;
- Safeguard important natural resources, particularly water;
- Conserve and enhance key fish and wildlife habitats;
- Provide abundant recreational opportunities; and
- Sustain local economies

Past projects include a study of the utilization of carbon credits by Maine forestland owners and co-sponsoring the Private Lands Partner's Day Conference with the U.S. Fish and Wildlife Service and the Maine office of National Resource Conservation Service (NRCS), on October 3-5, 2017. For current information, please visit [www.keepingmainesforests.org](http://www.keepingmainesforests.org).

## **CERTIFIED LOGGING PROFESSIONAL PROGRAM**

The Certified Logging Professional (CLP) Program was started by the directors of the Maine TREE Foundation to provide comprehensive training to loggers. Then as now, it includes six major components: Safe and efficient wood harvesting, the "Game of Logging" felling system, the Business of Logging, Forest Management and Silviculture, First Aid for Loggers and Conserving Fish and Wildlife. Loggers who successfully complete the four-day program may be certified after passing an in-depth field evaluation in conventional, mechanical or contractor/supervisor categories; recertification is required after two years. Maine TREE sponsors the CLP Program by contracting with a provider to offer the course at numerous times and locations, contributing materials such as certificates and hats and recognizing the achievement of program participants at an annual banquet where graduates are recognized and Outstanding Loggers are honored. Over 6,573 loggers have been trained by the CLP Program since 1991.

## **MAINE LOGGER EDUCATIONAL ALLIANCE**

Maine TREE held a conference in 2009 to ask loggers what they need to encourage new entrants into the logging profession. Today that is still an issue and Maine TREE continues to facilitate meetings for contractors, landowners and others interested in ensuring a career path for those interested in this profession. The MLEA website, [www.maineloggereducation.org](http://www.maineloggereducation.org), provides a place for information about and contacts with current training opportunities.

## **THIS IS MY OFFICE PROJECT**

Maine TREE worked with the Maine Forest Products Council and a private videographer to produce a 7-minute video, "This is My Office-Maine." The film presents sixteen young and not-so-young loggers and foresters describing why they love their work in their out of doors "office." The inspiration for this project comes from a 2010 video with the same goal but filmed in a very different forest, that of the west coast.

We hope Maine's version will encourage, especially, young people here to consider a career in the logging profession that today is safer and better paid than in the past, given the training required and the mechanization of the industry. Copies of the CD are available at the Maine TREE office. Please contact CJ Herlihy if you would like one (while supplies last).



**Teachers during a Teachers' Tour Presentation in the Woods**

## 2017 Contributors to LEAF

3 J's Logging, Inc.	Elmina B. Sewall Foundation	Madden Timberlands, Inc.	Wayne & Sue Rogalski
Acadia Insurance	Family Forestry	A.W. Madden, Inc.	Tom Rumpf
Affordable Well Drilling	Farm Credit Northeast	FA Madden, Inc.	Peter Russell
William Alcorn	Kenny Fergusson	Randall Madden Trucking	SAPPI Community Connections
American Forest Mgt.- BBC Lands, LLC	David Field	S.F. Madden, Inc.	SAPPI Fine Paper, NA
Anderson Equipment	Anthony Filauro	Maibec, Inc.	Ben Savage Logging
Earl Andrews	Fore River Foundation	Maine Coast Heritage Trust	Frank Schley
Philip Andrews	Forest Society of Maine	Maine Forest Prod. Council	Mary Schley
Roy Andrews	Elizabeth Fuchs	Maine Forest Service	Vincent & Kathi Seiwert
Appalachian Mountain Club	Fulghum Fibres	Frank Martin Sons, Inc.	Seven Islands Land Company
Ted Asherman	W.T. Gardner & Sons, Inc.	Sue & Kevin McCarthy	Tom & Edie Sisson
Sue Aygarn	Earl Gerrish & Sons, Inc.	Maxwell McCormack, Jr.	Anita Smith
Babineau Trucking, Inc.	Walter Gooley	Isabel McKay	Society of American Foresters
Si Balch	Nancy Gordon	Marcia McKeague & Chris Austin	Lawrence Stifler & Mary McFadden
Bangor Tire Company	John & Wende Gray	Sarah Medina	Stratton Lumber
Baskahegan Company	Dave Griswold	MEMIC	Jack Sutton
Anne Benaquist	Laurie Haines	Mid-Maine Forestry	The Nature Conservancy
Ethan Bessey	William & Susan Hamill	Roger & Margot Milliken	Thomas Logging & Forestry
E.D. Bessey & Son	Hammond Lumber Co.	Milton Cat	TNT Road Co., Inc.
Cameron & Heather Betts	Hancock Lumber	K. Scott & Mary Morrison	Jotham Trafton
Timothy & Carolyn Biglow	Hanington Brothers, Inc.	Marta Morse	Barbara & Richard Trafton
Blanchet Logging & Lumber Co.	Hardwood Products Co.	Fred & Linda Morton	TreeLine, Inc.
Edward Bonello	Lynn Harrison	Morton-Kelly Charitable Trust	Trees, Ltd.
Lucille Boucher	H.C. Haynes, Inc.	Nadeau Logging, Inc.	Craig & Nancy Troeger
J. L. Brochu Inc.	Wesley & Joyce Hedlund	Northeastern Lumber	Alison Truesdale
Barry & Carolyn Burgason	Highland Farms, Inc.	Manufacturers Assoc.	Two Trees Forestry
Ed Buschmann	Rebecca Hotelling	Northwoods Management	United Insurance
David Carlisle	Huber Engineered Woods	Nortrax, NE	Varney Agency
E.J. Carrier	M.H. Humphrey & Sons, Inc.	Oakhurst Dairy	Verso Corporation
Estate of Mary & Phillip Chadbourne	Brian Huntley	James & Lisa O'Malley	Viking Lumber
Chadbourne Tree Farms	Fred Huntress	PalletOne of Maine, Inc.	Wadsworth Woodlands
Peter Chandler	Alexander Ingraham	Parker Lumber Company	Wagner Forest Management
Chopper One, Inc.	Timothy Ingraham	Peavey Manufacturing	Robert Watjen
Stephen Clark	Charlie Ipcar	Gerald Pelletier, Inc.	Brad Wellman
David Clement	Irish Family Logging	Pepin Lumber, Inc.	David Wellman
Conservation Forestry	Irving Woodlands	Elaine Philbrook	Richard & Christine Wellman
Jon Cox & Anna Wood Cox	J & S Logging	Kathy & Jo Pierce	Howard Wellman
Hewlette Crawford, Jr.	Elliott Jordan & Son, Inc.	Pingree Associates	Western Maine Timberlands
Cross Insurance Agency	Katahdin Forest Mgmt.	Pleasant River Lumber	Peter Weston
Beth & Thomas Cushman	Key Bank, NA	Gerard Poulin & Sons, Inc.	Weyerhaeuser Company
Deering Lumber Company	Norton Lamb	Prentiss & Carlisle	Donald Whitemore
Deighan Wealth Advisors	Landvest, Inc.	Progress Engineering, LLC	Whitten's 2-Way Service, Inc.
T. R. Dillon Logging	Lee Auto Malls	Lucy Quimby	Bruce Wiersma
Marylee Dodge	Tina & Richard Levy	Felix Quirion	Tracy & Austin Wilkins
Neal Dow	Limington Lumber Co.	Readfield Insurance Agency	Wine & Cheese Logging
Thomas & Diane Dowd	Lindsco Equipment Co.	Readmont Lumber Co.	Jack Witham
Dwight & Jacqueline Dwinal	Linkletter & Sons, Inc.	ReEnergy Holdings	Wyonegonic Camps
M.B. Eastman Logging	LL Bean	Ala Reid	
Eaton Peabody	Louisiana Pacific Corp.	William & Joann Reidenback	
Kirby Ellis	Lumbra Hardwoods, Inc.	Jenness Robbins	
	Macpage, LLC	Robbins Lumber Company	
	Madden Sustainable Forestry		

## 2018 LEAF BUDGET – Maine TREE Foundation

Income	4000- Income- Unrestricted	
	4100- Interest	150.00
	4310-Draw on Endowment	20,500.00
	4320-Draw on Holt Endow	<u>94,250.00</u>
	Total 4000- Income Unrestricted	114,900.00
	4500- Income- Programs	
	4510- CLP Banquet Income	15,000.00
	4530- LEAF	
	4535- Forest Products (Mill Owners)	35,000.00
	4540- Forest Landowners	<u>40,000.00</u>
		75,000.00
	4550- Private Grants	
	4552-Private Other	40,000.00
	4555-Keeping Maine's Forest	<u>10,000.00</u>
	Total- Private Grants	50,000.00
	4570- Logging Contractors	2,000.00
	4580- Other- Business & Individual	40,000.00
	4585- Austin Wilkins Award	1,000.00
	4590-Events	<u>3,500.00</u>
		46,500.00
	Total 4535 - LEAF	171,500.00
	4650- Tree Farm Contract	4,000.00
	4700- Project Learning Tree	12,000.00
	4708-MPI Grant & Other	<u>15,000.00</u>
	Total 4700-Project Learning Tree	27,000.00
	4900- LEAF Tours	7,500.00
	4920-Woodland Steward	0.00
	4921-Woodland Steward Admin	0.00
	4936-KMF Admin Fees	<u>1,000.00</u>
		1,000.00
	<b>TOTAL INCOME</b>	<b>340,900.00</b>

6000-Expenses

6100- Administration

6105- Accounting, Legal PR Svc Fee	3,000.00
6112- Rent	4,560.00
6120- Bookkeeping	1,500.00
6122- Equipment	500.00
6125-Insurance	4,000.00
6130- Licenses, Permits, Fees	350.00
6140- Office/Computer Supplies	400.00
6145- Postage & Delivery	1,950.00
6150- Printing & Reproduction	3,500.00
6160- Telephone	600.00
6165- Travel- Administrative Assistant	100.00
6166- Travel- Executive Director	4,500.00
6180- Salaries & Wages (3 Employees)	180,000.00
6185- P/R Taxes & Benefits (3 Employees)	23,000.00
6199- Misc	<u>400.00</u>

Total 6100- Administration 228,360.00

6700- LEAF Tours

6710- LEAF- Tour #1	10,000.00
6720- LEAF- Tour #2	10,000.00
6780- Tour Publicity	1,000.00
6790- Office Supplies	<u>100.00</u>

Total 6700- LEAF Tours 21,100.00

6800- LEAF Funded Projects

6805- Outdoor Classrooms/Con...	5,000.00
6816-Keeping Maine's Forest	10,000.00
6870- Austin Wilkins Award	<u>1,000.00</u>

Total 6800- LEAF Funded Projects 16,000.00

Total LEAF Program 37,100.00

7000 - Project Learning Tree

7200- PLT Admin Expenses

7212- Rent- Office	4,500.00
7220- Postage	450.00
7230- Printing & Copying	1,500.00
7250- Telephone	550.00
7260- Travel- PLT Coordinator	<u>3,000.00</u>

Total 7200- PLT Admin Expenses 10,000.00

7300- PLT Program Expenses		
7312-MPI & An Con		2,000.00
7330- PLT Materials & Supplies		5,000.00
7360- Workshops		<u>150.00</u>
Total 7300- PLT Program Expenses		7,150.00
Total 7000- Project Learning Tree		17,150.00
8000- Other Maine TREE Funded Projects		
8110-CLP Program & Banquet		9,000.00
8112-Event		1,000.00
8140-Tree Farm		<u>100.00</u>
Total 8100-Other Maine TREE Funded Projects		10,100.00
9000- Holt Expenses		
9010-Holt Bookkeeping & Accounting		2,000.00
9025-Maintenance		5,000.00
9030-Insurance		3,600.00
9035-University		75,000.00
9040-Utilities		3,500.00
9260-Payment in lieu of taxes		<u>1,000.00</u>
Total Holt Expenses		90,100.00
<b>Total Expense</b>		<b>382,810.00</b>

## 2018 LEAF Dues/Contribution Calculation

ENTITY TYPE	VOLUME PROCESSED	RATE PER CORD	TOTAL PER TYPE
PAPER MILL		\$.02	
OTHER MILLS		\$.02	
LAND OWNER		\$.02	
CONTRACTOR		\$.01	
<b>TOTAL*</b>			

**\*THE REQUESTED MINIMUM DUES/CONTRIBUTION IS \$250 AND THE MAXIMUM IS \$20,000**

**Company** \_\_\_\_\_

**Contact Person** \_\_\_\_\_

**Address** \_\_\_\_\_

**City, State, Zip** \_\_\_\_\_

**Maine TREE Foundation  
P.O. Box 5470  
Augusta, ME 04332-5470**