WOOD MAGIC

FOREST FAIR: 2019 ANNUAL REPORT

ABOUT WOOD MAGIC

Wood Magic Forest Fair is a free, fun, forestry-fact-filled field trip and festival for fifth-graders. A four-hour program of forestry-related educational experiences and demonstrations, the fair combines hands-on activities with visually engaging presentations to teach children about the importance of forest lands to wildlife, the economy and our daily quality of life. The program is designed to enable fifth-graders from across the state to:

- Demonstrate awareness that our society depends on forests for many products we use every day and that these products improve our quality of life.
- Explain the difference between renewable and non-renewable natural resources and apply the reduce-reuse-recycle principles of conservation.
- Recognize that many different management techniques are required to insure long-term sustainability of our forests.
- Describe the many environmental, social, and economic benefits of our forests.

These goals are accomplished through a variety of 25-minute hands-on activities led by volunteers from numerous organizations. For a pictorial description of each of the six learning stations, please visit the Wood Magic web site at: www.trees.sc.gov/wmfair.htm.

HISTORY

The South Carolina Wood Magic Forest Fair was first held Oct. 18-22, 1999 at Harbison State Forest in Columbia. The program has been an extreme success, with over 38,261 participants in the 21 years since it began. Demand for the program has always exceeded the capacity since its inception. In 2017, with funding provided by a Sustainable Forestry Initiative Community Grant, the program was revised to become a fifth-grade program. SFI Community Grant funding helped pay for new educational materials, signage, revisions to meet fifth-grade educational standards, and other associated costs to include an extra day of the program.

This year's Fair was scheduled at three locations: SC Botanical Garden in Clemson, Harbison State Forest in Columbia, and Hobcaw Barony Discovery Center in Georgetown. Past programs have also been held at the Piedmont Forestry Center in Tamassee, Lynches River County Park in Florence, S.C. State University's Camp Daniels, and Sewee Environmental Education Center on the coast, as well as in-school programs in the Upstate during the 2003 school year.

The 2019 WMFF was coordinated by the S.C. Forestry Commission, and financed through donations and grants. Approximately 163 volunteers from the forestry community and other organizations came together this year to make this forestry education program successful.

“The activities made the day fly by. The kids were very engaged. The Good Fire/Bad Fire station was the best. They did a great job explaining and demonstrating.”

– Susan Bowers
Whitmire Community School

PARTICIPATION

Each spring, every public and private school with a fifth grade that is registered with the State Board of Education is sent an invitation and application for the Wood Magic Forest Fair. Applications are scheduled during the summer on a first-come-first-served basis, with some consideration given to schools that have never attended, as well as previous records of attendance and participation.

PARTICIPATION FOR 2019

Location	Applications Received	Classes Applied	Classes Attending	Children Attending	Teachers & Other Adults	Total Participants
SC Botanical Garden	21	71	30	584	105	689
Harbison	42	154	44	749	129	878
Hobcaw Barony	21	59	31	543	79	622
TOTALS:	**84**	**284**	**105**	**1,876**	**313**	**2,189**

PARTICIPATION SINCE 1999

Location	Applications Received	Classes Attending	Children Attending	Teachers & Other Adults	Total Participants
Piedmont (2004-2010, 2012, 2014-16, 2018)	201	281	5,456	889	6,345
Upstate (in-school, 2003)	92	32	744	37	781
SC Botanical Garden (2002, 2017, 2019)	121	88	1,779	394	2,173
Camp Daniels (2001)	43	43	786	172	958
Harbison (1999-2011, 2013-19)	1,478	780	13,420	2,665	16,085
Sewee (2000-2010, 2013, 2017)	505	401	7,797	1,534	9,331
Hobcaw (2012, 2014, 2016, 2019)	63	100	1,838	292	2,130
Lynches River (2015, 2018)	26	68	860	173	1,033
TOTALS:	**2,529**	**1,715**	**32,680**	**6,156**	**38,836**

*NOTE: In 2004 an improved system of taking applications only from schools, not individual teachers, began reducing the number of applications received. In 2010 applications were received for the Piedmont, Sewee and Harbison events, but only the Harbison event was held. In 2015 the Harbison event was canceled because of historic flooding in the Midlands.

ATTENDING SCHOOLS

SOUTH CAROLINA BOTANICAL GARDEN

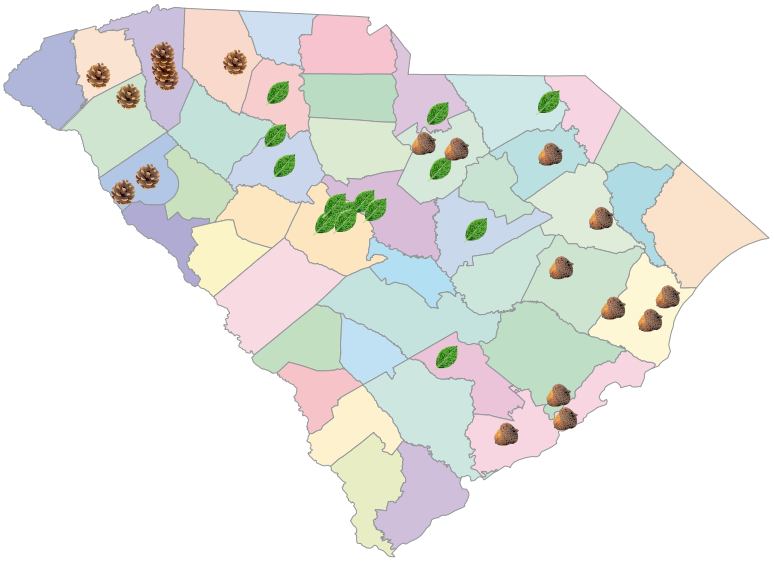
Bob Jones Academy ..... Greenville
Christ Church Episcopal..... Greenville
Clemson Elementary..... Clemson
Diamond Hill Elementary ..... Abbeville
John C. Calhoun Elementary ..... Calhoun Falls
Paris Elementary ..... Taylors
SC School for the Deaf ..... Spartanburg
Spearman Elementary ..... Piedmont

HARBISON STATE FOREST

Dorchester Academy..... St. George
Faith Christian Academy ..... Cheraw
Foster Park Elementary ..... Union
Heritage Christian Academy ..... Lexington
Holy Trinity Lutheran ..... West Columbia
Hyatt Park Elementary ..... Columbia
Kershaw Elementary..... Kershaw
Midway Elementary..... Lexington
Newberry Academy ..... Silverstreet
St. Joseph Catholic ..... Columbia
The Montessori School of Camden ..... Camden
White Knoll Elementary..... West Columbia
Whitmire Community..... Whitmire
Wilder Elementary ..... Sumter

HOBCAW BARONY DISCOVERY CENTER

Andrews Elementary..... Andrews
Baron-Dekalb Elementary ..... Camden
Coastal Christian Preparatory ..... Mt. Pleasant
Hannah Pamplico Elementary..... Pamplico
Lowcountry Leadership Charter ..... Hollywood
McDonald Elementary ..... Georgetown
Midway Elementary..... Cassatt
Philip Simmons Middle ..... Wando
Plantersville Elementary ..... Georgetown
Temple Christian Academy ..... Darlington
Williamsburg Academy ..... Kingstree



Schools attending at South Carolina Botanical Garden

Schools attending at Harbison State Forest

Schools attending at Hobcaw Barony Discovery Center

“The students were engaged and moving. The balance of talking/teaching to hands-on activities was good! The organization of the whole program was perfect.”

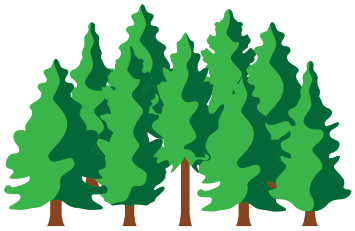
– Teacher
at SC Botanical Garden event

KNOWLEDGE GAINED

Every year teachers are asked to administer a pre-test and a post-test for the children who attend Wood Magic. The following highlights of those test measures are a testament to the effectiveness of the program.

+29 PERCENTAGE POINTS

Students showed a significant gain in knowledge about forests in all of the major categories measured. Overall, the students' scores increased from 56 percent on the pre-test to 85 percent on the post-test.



Before the program, only 39% of the students understood that the U.S. has more forests today than it did 100 years ago. 82% knew this to be the case afterward.

89% of the students now recognize that more trees are planted each year in South Carolina than are harvested.

Before attending, 49% of the students thought that prescribed (controlled) fires were harmful to forests and wildlife habitat. Afterward, 91% of the students recognized that prescribed (controlled) fires are used to improve forests and wildlife habitat.

Beforehand, only 31% of the students thought that using trees for the products we need is an environmentally friendly thing to do. After participating in this program, 83% now recognize the environmental benefits of forests and believe this to be true.

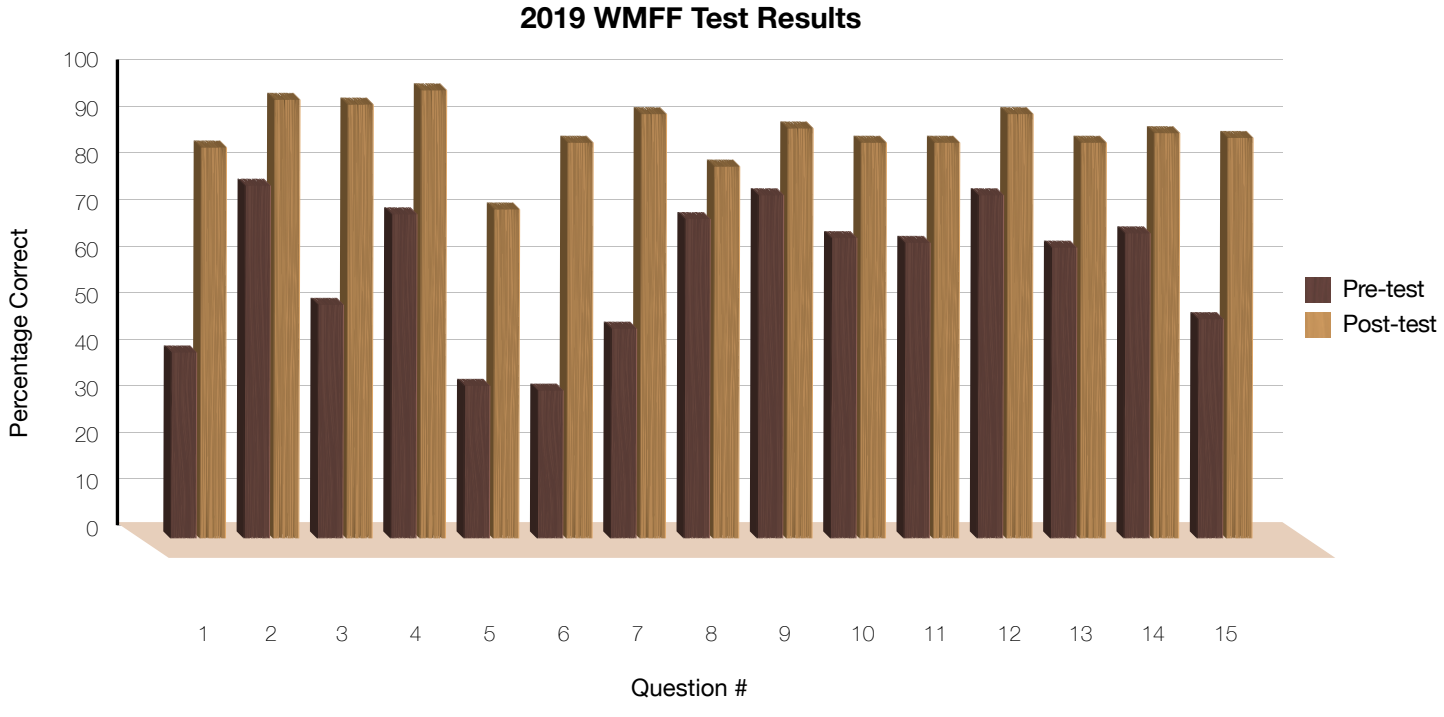
82% of the students now recognize that trees are a renewable natural resource.

After attending the fair, 69% of the students understood the main reason to recycle paper is to save landfill space and reduce waste. Only 32% understood this beforehand.

TEST RESULTS

Question	Pre-Test	Post-Test	Emphasis Of Test Question
1	39%	82%	There are more forests today than 100 years ago.
2	74%	92%	Trees are a renewable natural resource.
3	49%	91%	Prescribed fire can be used to improve forests and wildlife habitat.
4	68%	94%	Every part of a log is used when brought into a sawmill. There is no waste.
5	32%	69%	The main reason to recycle paper is to save landfill space and reduce waste.
6	31%	83%	Growing and harvesting trees to make products for our everyday use is environmentally friendly.
7	44%	89%	In SC there are more trees planted than are harvested each year.
8	67%	78%	Forests clean the air and water we use.
9	72%	86%	Oil and gas are non-renewable natural resources.
10	63%	83%	Definition of: Natural Resources
11	62%	83%	Definition of: Renewable
12	72%	89%	Definition of: Non-Renewable
13	61%	83%	Definition of: Biodegradable
14	64%	85%	Definition of: Recycle
15	46%	84%	Student can list at least 10 items that they use daily that come from wood.

* 1,277 student pre-tests were measured against 888 post-tests returned.



> The pre-visit and post-visit materials were very helpful. The instructors were great with my students. This was so very organized. We raved about it for days! Thank you so very much!

– Teacher
at Hobcaw Barony event

BUDGET

INCOME

2018 Carry-over funds	$19,578.00
SC SFI Implementation Committee Funds	$10,500.00
International Paper Foundation Grant	$5,000.00
Dominion Energy	$2,500.00
Sawmill Fundraiser (Various Donors)	$2,482.35
South Carolina SAF	$1,200.00
SC Conservation Districts Foundation	$1,000.00
Georgia-Pacific, LLC	$1,000.00
SC Tree Farm Committee	$750.00
NC Forestry Association (Video Donation)	$500.00
Total Income	**$44,510.35**

EXPENSES

Food	$6,668.16
Tent/Chair/Table/Toilet/Facility Rentals	$5,497.00
Postage/Mail Service/Publicity	$881.87
Office supplies, Misc.	$654.84
Travel/Lodging	$620.00
Insurance	$506.33
T-shirts	$0*
Total Expenses	**14,828.20**

BALANCE $29,682.15

IN-KIND CONTRIBUTION $93,446.00

*$6,241.80 T-shirt expense for 2019 will be paid in 2020 budget

Funds for the 2019 Wood Magic Forest Fair were provided through grants from the following organizations:

SC CONSERVATION DISTRICTS FOUNDATION

NC FORESTRY ASSOCIATION

INTERNATIONAL PAPER

DOMINION ENERGY

SC TREE FARM COMMITTEE

GEORGIA-PACIFIC CORPORATION

SC SUSTAINABLE FORESTRY INITIATIVE IMPLEMENTATION COMMITTEE

SAF FORESTERS' FUND

CONTRIBUTORS

South Carolina's Wood Magic Forest Fair is jointly sponsored by the Forestry Association of SC and SC Forestry Commission. Special thanks to the following organizations that provided monetary support of $3,000 or greater.

SC SFI Implementation Committee
International Paper Foundation
Sustainable Forestry Initiative, Inc.

Special thanks to the following organizations that provided financial support and/or in-kind services (personnel, equipment, and supplies).

Bobcat Forestry
Belle W. Baruch Foundation
Blanchard Machinery
Blue Ridge Electric Cooperative
Boise Cascade Wood Products
Canfor Southern Pine
Catchmark
Central Carolina Technical College
Charles Ingram Lumber Company
Chestatee Chattahoochee RC&D Council
Clemson Extension
Clemson University Forestry Dept.
Collum's Lumber Products LLC
Domtar Paper Company LLC
Enviva Pellets Greenwood, LLC
Evergreen Packaging Corp.
Forest Investment Associates
Forest Stewardship Program - USFS
Forestry Association of SC
Georgia-Pacific LLC
Green Diamond Management Co.
GreenWood Resources, Inc.
Hancock Natural Resource Group
Hobcaw Barony
Interfor
International Paper
Jordan Lumber & Supply Co.
Natural Resource Conservation Service
New-Indy Catawba
Norbord SC
Palmetto Timber Inventory Specialists
Pollard Lumber
Rayonier
Resolute Forest Products
Resource Management Service
Roy's Wood Products
SC Botanical Garden
SC Forestry Commission
SC Master Naturalist
SC Society of American Foresters
SC Timber Producers Association
SC Tree Farm
Sonoco Products Company
Sonoco Recycling
Southern Group of State Foresters
Timberland Investment Resources
Trenton Correctional - SC Dept. of Corrections
True North Forestry LLC
US Fish & Wildlife Service
US Forest Service
USC School of Medicine
West Fraser, Inc.
WestRock
Weyerhaeuser Co.

“The pre-visit packet had great standards-based activities. Love the use of humor and magic! Students learned a lot about wood products and how things are linked together through the forest.”

– Amy M. Hughes
Foster Park Elementary

STAFF

The success of South Carolina's Wood Magic Forest Fair can be attributed to the dedication, technical competence and hard work of the 163 volunteers:

David Bagwell ..... SCFC
Bruce Ballentine ..... SCFC
Jon Barker ..... SCFC
Dave Barry ..... Palmetto Timber Inventory Specialists
Krysta Barry..... Palmetto Timber Inventory Specialists
Ryan Bean ..... Clemson Extension
Chase Bettis..... International Paper
Bridget Blood ..... Clemson University
Scott Bodiford ..... Resource Management Service
Kerry Boyle ..... SCFC
Mike Bozzo ..... SCFC
Brad Bramlett..... SCFC
Tom Brant..... Clemson Extension
Lee Brockington ..... Hobcaw Barony
Susan Brogdon ..... SCFC
Jarrod Brucke ..... SCFC
Betsy Burke ..... USFS
Ken Caldwell ..... Boise Cascade
Jonathan Calore ..... SCFC
Richard Camlin ..... Hobcaw Barony
Isaac Case ..... SCFC
Ray Cassell..... SCFC
Josh Castleberry ..... CCTC
George Chastain ..... Hobcaw Barony
Gwyn Cloninger..... SCFC
Jessie Coleman ..... CCTC
Clay Cooper..... SCFC
Grace Anna Cooper..... SCFC
Bart Copeland..... Collum's Lumber Products LLC
Sharon Corey ..... Volunteer
Doug Costin ..... International Paper
Trey Cox ..... SCFC
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Carter Cummings ..... SCFC
Jennie Cundiff ..... Resource Management Service
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Mallory Dailey ..... Clemson Extension
Jessica Daniel..... CCTC
Carolyn Dawson ..... Clemson Extension
Justin Demiter ..... International Paper
Jason Duck ..... SCFC
Tammy Fidler..... SCFC
Blain Foley..... Challenge Design Innovation
Beth Foley..... SCFC
Chase Folk..... SCFC
Jacqueline Forsyth ..... SCFC
Rodney Foushee ..... USFS
Sara Beth Freytag..... Hobcaw Barony
Nathan Gambrell..... SCFC
Jeremy Gantt..... SCFC
Matt Gilstrap..... SCFC
Matt Gordon..... SCFC
Madison Graham..... SCFC
Tyler Greiner ..... SCFC
Curt Gwinn..... SCFC
Chuck Harrell ..... Resource Management Service
Nathan Harrington ..... Interfor - Georgetown Division
Lisa Hart ..... SCFC
Bill Hayne ..... International Paper
Gary Hermann ..... Bobcat Forestry
Brenda Hill..... Master Naturalist
Patrick Hill ..... Master Naturalist
Jane Hiller ..... Sonoco Recycling
Nathan Hilley..... Clemson University
Ginny Holt ..... Master Naturalist
Justin Holt ..... SCFC
Ron Holt ..... SCFC
Nancy Hoyt Duncan..... Master Naturalist
Russell Hubright ..... SCFC
Henry Hutto ..... SCFC
Licia Jackson ..... Master Naturalist
Karen Jackson ..... Clemson Extension
David Jenkins ..... SCFC
Parker Johnson ..... Clemson Extension
Sara Johnson ..... Clemson Extension
Michelle Johnson..... SCFC
Katie Jordan..... Clemson University

Bobby Jordan ..... Volunteer
Joe Kernan ..... Master Naturalist
Rita Kernan ..... Master Naturalist
Debbie Kiser ..... SCFC
Matt Krawiec ..... Domtar Paper Company LLC
William Ladd ..... SCFC
Joey Lemmon ..... SCFC
Rick Lint ..... USFS
Terasa Lott ..... Clemson Extension
Kent Low ..... Volunteer
Randy Lyles ..... SCFC
Joseph Marlowe..... SCFC
Judy Mayer..... Volunteer
Amy McClellan..... Resource Management Service
Kim McCollum..... Chestatee Chattahoochee RC&D Council
Chris McCorkle..... SCFC
John McGee ..... SCFC
Michael McGill ..... SCFC
Amy McGrath..... Horry-Georgetown Tech
Blake McMichael ..... Rayonier
Patricia Midgett..... USFWS
Ron Mildenstein..... Volunteer
Trip Miller..... SCFC
Doug Mills..... SCFC
Trent Moore..... Interfor - Georgetown Division
Larry Moody..... SCFC
David Myers..... Rayonier
Mike Ney..... SCFC
Joey Nicoll ..... Boise Cascade
Emily Oakman..... Forestry Association of SC
Christine O'Connell..... Volunteer
David Owen ..... SCFC
Bobbi Oxford ..... AnMed Health Cannon Hospital
Ronnie Patterson..... SCFC
Stephen Patterson ..... SCFC
Brad Phillips..... SCFC
Zannie Poston ..... Volunteer
Zeb Quattlebaum..... Hobcaw Barony
Soni Rai ..... SCFC
Phil Reddick..... SCFC
Conner Rederick..... CCTC
Jeff Riggin..... SCFC
Frank Riley..... Chestatee Chattahoochee RC&D Council
Betty Roberts..... Volunteer
James Robins..... SCFC
Clay Rogers..... SCFC
Byron Rominger..... SCFC
T.J. Savereno ..... Clemson Extension
Eva Scharfstein..... Volunteer
Matt Schnabel..... SCFC
Ginnie Sheckells..... Volunteer
Pam Shroyer..... Master Naturalist
Ed Siggelko ..... Master Naturalist
Jessica Simpson ..... Clemson Extension
Eric Smith ..... WestRock
Jamie Smith..... SCFC
Wayne Smith..... SCFC
Gretchen Spaulding ..... SCFC
Mildred Spearman..... Master Naturalist
Vaughan Spearman ..... SCFC
Sam St. Louis ..... SCFC
Janet Steele..... Clemson Extension
Tom Stephens ..... Georgia-Pacific
Janine Sutter..... Clemson Extension
Sarah Talley ..... USFS
David Taylor ..... SCFC
John Thurmes ..... True North Forestry LLC
Bran Tisdale..... SCFC
Rick Tootle..... USFS
Lisa Unger..... Volunteer
Margaret Utecht ..... Domtar Paper Company LLC
Nancy Walker..... Volunteer
Barbara Walsh..... Volunteer
Tom Walsh ..... Volunteer
David Watford..... Resource Management Service
Elamon White ..... USFS
Patricia Whitener ..... Clemson Extension
Danny Whitner ..... Canfor Southern Pine
Tyler Wiggers ..... SCFC
Nancy Williams ..... USC School of Medicine
Allison Williams ..... USFS
Liza Wilson ..... Clemson University
Betty Wilson ..... Resource Management Service
Jonathan Windham ..... Clemson Extension
Doug Wood..... SCFC

CONTRIBUTIONS OF PERSONNEL

Contributor	# Personnel	% Personnel	# Man Hours	% Man Hours
SC Forestry Commission	69	42%	1443	50%
Federal Government	8	5%	114	5%
Other Government Agencies	25	15%	379	13%
Private Sector	47	29%	803	28%
Volunteers	14	9%	135	4%
TOTALS:	**163**	**100%**	**2874**	**100%**

STEERING COMMITTEE

The Wood Magic Forest Fair Steering Committee is made up of volunteers from the forest industry, state and federal agencies, and private foundations who help oversee and organize the program.

Pam Baltimore ..... US Forest Service
Ryan Bean ..... Clemson Extension
Sabrenna Bryant ..... USDA NRCS
George Chastain ..... Belle W. Baruch Foundation
Mallory Dailey ..... Clemson Extension
Beth Foley ..... SC Forestry Commission
Russell Hubright ..... SC Forestry Commission
Crad Jaynes ..... SC Timber Producers Association
Patricia Midgett ..... US Fish & Wildlife Service
Trent Moore (Chair) ..... Interfor – Georgetown Division
Emily Oakman ..... Forestry Association of SC
Jay Phillips ..... Resource Management Service
Matt Schnabel ..... SC Forestry Commission
Eric Smith ..... WestRock
John Thurmes ..... True North Forestry

"The program was fun, informational, and fast-paced. The students were involved, and they learned a lot. The assessment data shows that they understood what was happening."

– Herbert Jenkins
Andrews Elementary

Linsey
PURE GOLF
DORCHESTER ACADEMY