



2016 Annual Report Presented by Forestry Educators Incorporated

a Non-Profit 501(c)3 Corporation

Message from the Executive Director



As I look back at the past year, and think about what made it unique, one thing comes to mind – 2016 was the year of refinement. With the five California events firmly in place, and growth from 2015 at only 6%, we were able to catch our collective breath and focus on making our operation more efficient. While our core staff of three remained constant, we added seasonal help both behind the scenes and at events. We organized our tools and supplies so they are easy to access. And, with solid support from our sponsors and grants from the US Forest Service, we made long term investments in equipment such as a golf cart, computers, and projectors.

These behind the scene improvements, coupled with a new website that is visually pleasing and mobile device friendly, puts us in position to reach our maximum capacity in California and be ready to expand out of state if the opportunity presents itself. With that possibility in mind, we have revised the logo and name. Now, we are simply "Forestry Challenge". Calm, cool, and collected, we are focused on maintaining the high quality of the existing program while being open minded to new opportunities to educate our youth about science-based forest management.

Deane

Diane Dealey Neill Executive Director

Forestry Educators Incorporated
A Non-Profit 501c3 Corporation
Tim Cary, President
Jill Engelmann, Secretary
Rich Wade, Treasurer

<u>2016 BUDGET</u>		
Funding Source		
Federal Grants	\$	97,977
Sponsor Contributions	\$	73,617
Registration Income	\$	37,445
Total Funding	\$	209,039
		The state of
Expenses		
Events		
Facilities and Food	\$	76,144
T-Shirts	\$	6,850
Substitutes and School Transportation	\$	
Awards	\$	470
Personnel		
Wages and Payroll Taxes	\$	71,434
Employee and Volunteer Mileage	\$	9,060
Overhead		
Office Supplies, Printing and Postage	\$	5,474
Insurance	\$	2,009
Professional Services and Website	\$	1,708
Outreach		
Airfaire, Rental Car, Hotels	\$	1,799
Conference Registrations	\$	465
		-
Total Expenses	\$	181,197
Carryover for Future Growth	\$	27,842

Thank you to our Sponsors

2016 Totals: 415 Students and 84 Teachers from 56 Schools

Allison Melott

Amador-El Dorado Forest Forum

Amador Resource Conservation District

American AgCredit

Anderson Logging

Associated California Loggers

Big Creek Lumber Company

Bill Dennison

Bordges Timber

C.T.L. Forest Management

California Licensed Foresters Association

Collins Company

Crane Mills

El Dorado County RCD

Emerson Logging

Frank Losekoot

Fruit Growers Supply Company

Georgetown Divide RCD

Hancock Forest Management

Hardie Tatum Tree Management

Headrick Logging

Humboldt Redwood Company

Inland Empire RCD

J & R Logging

Jared Tappero

Joe Dillard

Joe Thornton Logging

Kimberly Tiesen

Knox Garden Box

March Conservation Fund

Mark Crawford Logging

Matt Waverly

Mendo-Boldt Industries

Mendocino Redwood Company

Pacific Forest Foundation

Papé Group

Peter Johnson

PG&E Corporation Foundation

Placer County RCD

Red River Forests

Redwood Empire Sawmill

Rich Wade

Robert Dalton

Robinson Enterprises

Roseburg Resources Company

Santa Cruz County Office of Education

Shasta County Resource Advisory Committee

Shasta Forests Timberlands

Sierra Cascade Logging Conference

Sierra Forest Products

Sierra Nevada Conservancy

Sierra Pacific Foundation

Sierra Resource Management

Soper Wheeler Company

Stan Leach Timber

The Home Depot

Tim Treichelt Giving Fund

Timothy M. Cary & Associates

Timber Products Company

Tom Lannen

Trinity River Lumber Company

United Risk Solutions

United Wholesale Lumber Company

USFS – Forest Stewardship Program

Waratah Forestry Attachments

Woolery Timber Management





Making Connections: Foresters and Schools

is Quirmbach with

Golden Eagle Charter

In a new effort for 2016, we asked teachers if they wanted a forester to work with their students prior to coming to a Forestry Challenge. Over 40 teachers said "yes", and we were able to match most of those schools with a local forester. Many schools are forming lasting relationships with their forester and holding training sessions on campus, in city parks, or out in the forest.



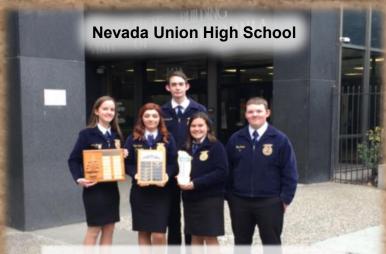




The Thatcher Ranch provided a beautiful backdrop for the Shasta focus topic, led by Len Lindstrand of W.M. Beaty & Associates. Students evaluated even-aged pine plantations on

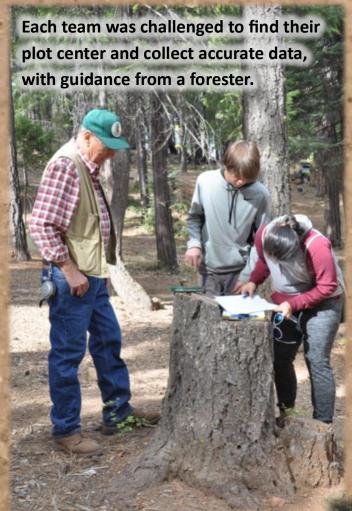
the property, assessing the condition of the plantations by collecting data on evenly-spaced plots. Using the compiled data, teams weighed in on how to manage the 38-year-old pine plantations on the Ranch over the next 10 years.





First Place and Highest Scoring Team
Statewide after their presentation to
the Board of Forestry

By the time testing begins, teams have mastered the basics and can complete the test with confidence.





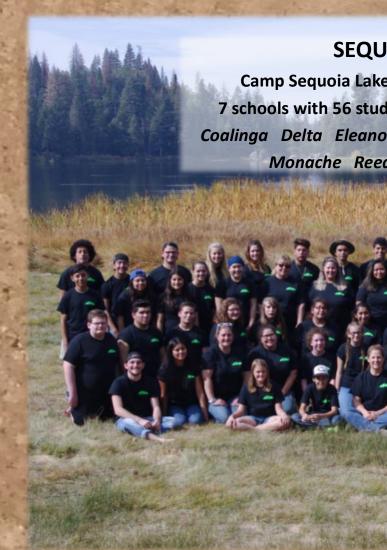






second place in their first year of

participating.

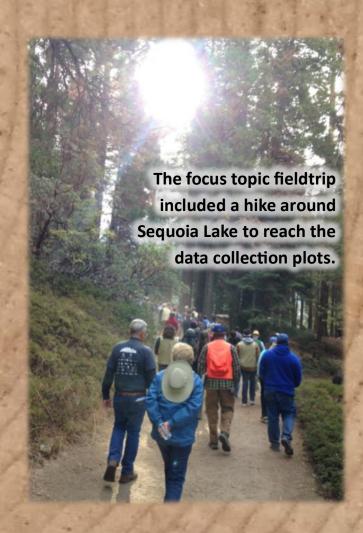


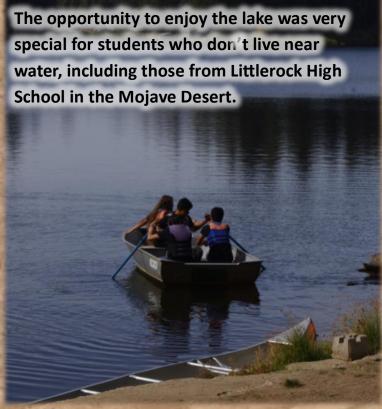


camp Sequoia Lake, the site of the 2016 event, is in the heart of California's tree mortality epidemic, which jeopardizes the safety of Camp visitors and staff. To assist Camp managers with anticipating the next wave of mortality, students inventoried the live trees around the Camp's buildings and infrastructure, classifying them by species and size.

They evaluated the health of these trees to predict the need for another hazard tree removal project in the future.











Rosemont Sac New Tech Vista Del Lago

Rain didn't dampen the spirits of participants at the El Dorado Forestry Challenge, at 960-acre Leoni Vista Del Lago Meadows Camp. Students applied Brown's Transect methodology to collect data used to calculate fuel loading and simulate prescribed fire behavior. Teams braved a drenching downpour during field testing, and soared on Leoni's zip line and adventure course in equally wet conditions. Many of the teams concluded, after running the fire behavior **First Place Team** computer models, that the unit being evaluated will not be ready to burn for a few more

treatments on their well-managed forest.

years, helping the Leoni forest manager prioritize fuels







Grant High School is one of many participating schools that has an environmental science academy. These students arrive at events with built-in knowledge and interest.



4-Year Awards

Only a select group of students earn special recognition for attending a Forestry Challenge event all 4 years of high school. This year there were three 4-Year Award recipients, two of whom have attended the El Dorado Forestry Challenge. Congratulations to Jonae Curry and Joi Jacobs, both of Cordova High School.



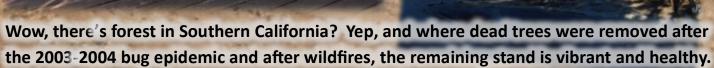


The students from Southern California are always excited to come to the forest, and the participants of the San Bernardino event were extremely focused and enthusiastic. Thinking outside the box, students created a business plan for non-timber

forest products at Green Valley Lake Christian Camp. Teams quantified potential earnings from often-overlooked forest products such as pine cones, Christmas trees, and decorative hardwoods. Camp managers prompted this topic, as they are always open to alternative

ways to generate income that are compatible with the Camp's primary mission.







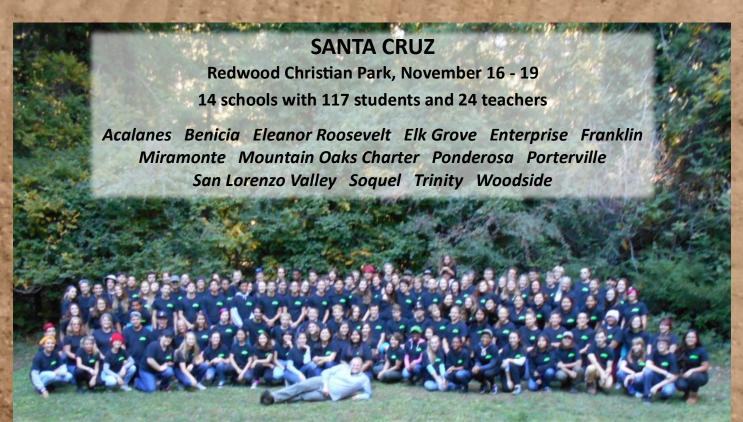
Students were amazed to learn that Coulter Pine cones are sold for as much as \$20 each, depending on their size and condition. By measuring and grading the cones, a potential value could be calculated.



Generous equipment loans and donations result in the students being geared up with the proper forestry tools and safety equipment.



Returning students are an indicator of success. This year's events had a combined total of 70 multi-year seniors, who are recognized with a certificate at the end of each event.



The 2016 event season ended on a high note, with great weather and the largest group of the year at Redwood Christian Park (RCP) in the beautiful redwoods of Santa Cruz County. In true "rock star" fashion, forester Julie Dufresne of Big Creek Lumber Company led the focus topic, an evaluation of sustainability after a harvest at RCP in the fall of 2015. Students collected data that helped them determine how fast the forest is growing, and found out that, by far, more is growing than is being harvested. The question then became one of the carrying capacity of the land and determining an optimum long-term growth and harvest cycle for the forest.







By collecting their own data, students realize that data represents tangible objects, and that the correct interpretation of the data is important in making management decisions. Here are some students from Elk Grove High School, who are working well as a team to prepare their final presentation.



Forestry Challenge Scholarship

For the last two years, Redwood Empire, a division of Pacific States Industries and the Burch Family, has awarded scholarships to assist students who plan to



obtain a college degree in Forestry and participated in one or more California Forestry Challenge events. Recipients must be enrolled full time in a four-year program that leads to a B.S. degree in Forestry or a closely related field. In 2016, two students each received a \$2,000 scholarship.

BRIANNA CEBELLERO received scholarships in 2015 and 2016. She is a graduate of Nevada Union High School in Grass Valley, where she and her team won the 2014 Shasta Forestry Challenge. Brianna is in her second year at Reedley College, and plans to transfer to a four-year school to earn her forestry degree. Last summer Brianna got an introduction to forestry field work at the Tahoe National Forest as a Recreation Technician. After graduation, she wants to be a field management officer for the U.S. Forest Service.





SUMMER VON AESCH was also part of a winning team, from Bella Vista High School, that won the 2015 El Dorado Forestry
Challenge. Summer is a student at Sierra
College in Rocklin, and hopes to transfer to
Cal Poly San Luis Obispo for her forestry
degree. On her scholarship application,
Summer wrote, "The Forestry Challenge was honestly one of the best experiences of my life because I genuinely loved learning everything and was so interested in the topics

we were presented with. After the Challenge, it was like a lightbulb went off in my head, and I suddenly had clarity on what I wanted to do with my life."

What is the Forestry Challenge?

The California Forestry Challenge is an academic competition for high school students in technical forestry and current forestry topics. The four-day events are held in five locations throughout California.

Goal #1: Teach students the basic principles of forestry, connecting classroom math and science to hands-on experiences with real-world applications, enabling them to make recommendations about natural resource management.





Goal #2: Give students the opportunity to explore careers by interacting with natural resource professionals including foresters, hydrologists, soil scientists, wildlife biologists, and fire scientists.

Goal #3: Provide an opportunity for a diverse student population to experience outdoor recreation and develop an appreciation for the forest and its benefits to us all.



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Forestry Educators Incorporated

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