



www.forestrychallenge.org

El Dorado Forestry Challenge
October 25 to October 28, 2023
Leoni Meadows

2023 EL DORADO FORESTRY CHALLENGE

SCHEDULE OF EVENTS

Wednesday, 25, 2023

4:00 to 5:30	Registration and Housing Assignments
5:30 to 6:30	Dinner
6:45 to 8:15	Welcome and Focus Topic Question presented / Q&A
8:30 to 10:00	Evening Activities
10:00	Report to Dorms

Thursday, October 26, 2023

8:00 to 8:45	Breakfast
8:45 to 9:00	Gather for Field Training
9:00 to 12:00	Field Training
12:00 to 1:00	Lunch
1:00 to 1:15	Gather for Data Collection
1:15 to 4:30	Data Collection
4:30 to 5:00	Return to camp
5:30 to 6:30	Dinner
7:00 to 10:30	Teams Prepare Presentations / Ask a Forester appointments
10:30	Report to Dorms

Friday, October 27, 2023

8:00 to 9:00	Breakfast
9:00 to 9:30	Gather for Field Testing Instructions
9:30 to 12:00	Field Testing or Challenge Course Activities
12:00 to 1:00	Lunch
1:00 to 1:30	Gather for Field Testing or Challenge Course Activities
1:30 to 4:00	Field Testing or Challenge Course Activities
4:00 to 5:30	Field Test Review, Pacing Contest, School and Group Photos
5:30 to 6:30	Dinner
6:30 to 9:30	Teams Finish Preparing Presentations
9:30 to 10:30	Evening Activities
10:30	Report to Dorms

Saturday, October 28, 2023

8:00 to 9:00	Breakfast
8:15 to 9:00	Judges Orientation
9:15 to 11:15	Teams Give Presentations
11:20 to 11:45	Judging Panel Feedback to Students
11:45 to noon	Awards
Noon	Lunch and Farewell

2023 El Dorado Forestry Challenge Participants

School	County	Advisor(s)	Team #'s
Bret Harte	Calaveras	Matt Castro	1, 2, 3
Calaveras	Calaveras	Kevin Hesser	13, 14
Florin	Sacramento	Karlin Ruth	15, 16
Folsom	Sacramento	Mary Johnston	6, 7, 8
Golden Sierra	El Dorado	Amara Smallwood	9, 10, 11
Grant Union	Sacramento	Arron White	22, 23, 24
John F. Kennedy	Sacramento	Senna Vasquez	17, 18, 19
Mira Loma	Sacramento	Colleen Kelly	20, 21
Mountain Oaks	Amador	Kayle Anisko	4, 5
Northern Summit Academy	Shasta	Bryan Knight	12
Piedmont	Alameda	Andy Willats	27, 28
Sequoia Grove Charter	El Dorado	Jessica Campbell	0
South Tahoe	El Dorado	Richard Kinnett	29, 30
Summerville	Tuolumne	Rachel Castongia	31, 32
West Campus	Sacramento	Anne Bestgen	25, 26

Daytime: Staff in Meadow Lodge Third Floor Lobby
Nighttime: Staff: Room 215 or call 530-417-1960
First Aid: Dan in Room 216

All schools except Golden Sierra (camping) will be housed in the dormitories in the lowest level of the Leoni Lodge. Boys will be on the west side (right from the dorm lobby) and girls will be housed on the east side (right from the dorm lobby).

It is our responsibility to keep the dormitory bathrooms clean and in good working order. Therefore, we are asking you to check the bathrooms and clean as needed according to the following schedule.

Day and Time	Schools
Wednesday PM	Folsom, Florin
Thursday AM	Northern Summit Academy, Piedmont, Sequoia Grove, West Campus
Thursday PM	South Lake Tahoe, Summerville
Friday AM	Grant Union, Mountain Oaks
Friday PM	Mira Loma, Bret Harte
Saturday AM	Calaveras, JFK

A Note About Our Sponsors:

In addition to the sponsors on the front cover of this booklet, many more companies, organizations, and individuals contributed. They are:

Anderson Logging
 California Forestry Association

Crane Mills
 Steve McAdams

2023 Forestry Challenge Rules

I. Participant Eligibility

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college students and 8th graders may participate if the facility can accommodate them, as determined by the Forestry Challenge (FC) Coordinator.
2. Teams will consist of two to five students from the same school, homeschool, tribe, or scouting group. More than one team may enter from each school as space permits. However, there may be a need to restrict the number of students per school, depending on the facility's capacity.
3. An adult advisor must accompany each team. The advisor can be a teacher, staff member, or approved parent from that school. One chaperone can supervise more than one team from the same school, as housing arrangements permit.
4. For schools bringing only one adult, an additional adult of the opposite gender must be available on standby to ensure proper overnight supervision. Schools will be notified the day after the registration deadline if additional adults are required to assure correct ratios.
5. Each participant must arrive with all applicable and signed Liability / Medical / Media Release Forms in order to participate. These forms must be turned in at registration or received prior to the event.
6. Only registered participants with signed forms will be allowed on site.
7. Chaperones and students will check in together unless prior arrangements are made with the FC Coordinator.
8. At least one team advisor must be on site with their students at all times and will be responsible to assure that team members display proper conduct during the event and at the host facility.

II. Participant Behavior

1. Participants will report any illness or personal emergency to the coordinator or designated staff.
2. If participants break or damage the property of the FC or the host site, they are responsible for reporting the damage and paying for its repair.
3. All students must attend and fully participate in all scheduled activities.
4. Although advisor must attend all activities to properly supervise students, they are not allowed to actively participate in field testing or focus topic presentation preparation.
5. Students must report to and stay in their assigned dorms or dormitories at the designated time at the end of each day. Facility housing will be described in advance, and if it does not meet the needs of one or more students, the advisor must ask for alternate arrangements in advance of the start of the event.
6. No students or chaperones are allowed to leave the host site without approval.
7. Tobacco, drugs, and alcohol are prohibited during all parts of the event.
8. Participants are expected to behave in a professional manner, consistent with behavior appropriate to the workplace. Harassment, bullying, and any form of discrimination is NOT appropriate workplace behavior. Any observance or reporting of such actions will be thoroughly investigated and disciplined. Disciplinary actions can include disqualification and/or dismissal from the event and host site.

III. Registration Fees and Deadlines

1. A completed registration form must be submitted 12 days before the start of the event. Registration fee due dates and full amounts are as follows:
 - Shasta FC registration is due September 15
 - Santa Cruz FC registration, due September 29
 - El Dorado FC registration, due October 13
 - San Bernardino FC Session 1 registration, due October 27
 - San Bernardino FC Session 2 registration due November 3
2. There is no registration fee for the 2023 event season. Instead, a \$25 per student refundable deposit will be required. No deposit is required for teachers and adult chaperones.
3. The deposit is due 1 week (7 days) before the start of the event, either as a check postmarked as of that date, or as a PayPal deposit. Checks should be made payable to Forestry Educators Incorporated and mailed to 3140 Sierrama Dr, Shingle Springs, CA 95682. PayPal deposits are preferred and can be made to the holding account.
 - Include the school name in the memo line.
 - Please make only one payment per school if possible.
 - Contact FC Coordinator if parents are making deposits for individual students.Registration deposits due dates are as follows:
 - Shasta FC deposits are due September 20
 - Santa Cruz FC deposits are due October 4
 - El Dorado FC deposits are due October 18
 - San Bernardino Session 1 deposits are due November 1
 - San Bernardino Session 2 deposits are due November 8
4. Any deposit not in the possession of Forestry Educators by the beginning of the event will result in a \$25 per student registration fee. If no payment is received, an invoice for the number of students registered will be sent to the school.
5. An online invoice generator will assist teachers with the payment process.
6. Deposits will be refunded either in full with 75% attendance or greater, or in part if attendance for the school drops below 75%. A breakdown chart is available at the bottom of the page. If attendance drops below 75% for the school, a charge of \$25 per student slot registered but not in attendance will be applied.
7. In the event a registered student drops after the deadline, a new student can be substituted to maintain attendance. If the substitution happens 5 days or more prior to the event, there is no restriction as to who can be swapped. If less than 5 days prior, the student substituted must be of the same gender to maintain housing arrangements.

IV. Competition Components and Expectations

1. The FC has two parts: a Field Test and a Presentation. The two parts will be scored separately. The Field Test will be worth 60% and the Presentation will be worth 40% of the total score. The point balance for Championships will be 60% Presentation and 40% Test.
2. The Field Test is completed as a team and is comprehensive in nature, with many questions using props and tools such as tree specimens and forestry equipment. One test key will be provided for each school after the testing period, to be returned by the end of the testing day. The FC Coordinator or designee will be available to answer questions.
3. Test questions will be developed using the FC Learning Objectives and reference materials linked to the Objectives as a guide but are not necessarily limited to those items. Knowledge of basic ecological concepts and information presented during the event may be tested as well.

4. The use of personal electronic devices such as cell phones is not allowed during field testing, presentation prep time (besides for transferring pictures), and final morning while in the waiting area. Devices will be confiscated if deemed necessary by authorized staff and volunteers.
5. Students will not be allowed to use their reference materials, including cellular devices, during the Field Test. All materials needed during the Field Test, including identification keys, reference materials, calculators, and equipment, will be provided at the testing stations.
6. Any written and electronic materials teams bring to the event and gather while at the event may be used during presentation prep time. Laptop computers will be used, and there will be equal access to wireless internet when available. Hotspot devices will be allowed as determined by the FC Coordinator.
7. Students will not be allowed to review presentation materials once the first presentation period begins and will be asked to gather in one area to wait until presentation time begins.
8. Each team's Field Test and Presentation scores will be totaled, and overall places award will be given accordingly. All participants will receive a certificate of participation.

V. Other

1. Transportation to, from, and during an event will be the responsibility of each participating team unless transportation is provided during an event.
2. Students may attend more than one regular event during the fall season. If a team with one or more repeating students places in the top 5, that team will not displace a team that is competing for the first time that season.
3. Students and chaperones will be asked to complete an evaluation form at the conclusion of the event.
4. Grievances must be submitted in writing to the FC Coordinator by the end of the review period immediately following the Field Test or the Presentation portion of the event. Grievances will be reviewed by the Coordinator and discussed with involved judges and/or volunteers. The Coordinator's decisions are final.
5. FC rules are subject to change by the Coordinator. Any changes will be explained in advance to all teams and advisors.
6. Host site/facility rules will be enforced in addition to FC Rules.
7. Any infraction of any of the FC Rules may result in disqualification and/or dismissal from the event and the host site.



The Forestry Challenge is part of California Climate Investments, a statewide program that puts billions of Cap-and-Trade dollars to work reducing GHG emissions, strengthening the economy, and improving public health and the environment – particularly in disadvantaged communities. The Cap-and-Trade program also creates a financial incentive for industries to invest in clean technologies and develop innovative ways to reduce pollution. California Climate Investments projects include affordable housing, renewable energy, public transportation, zero-emission vehicles, environmental restoration, more sustainable agriculture, recycling, and much more. At least 35 percent of these investments are located within and benefiting residents of disadvantaged communities, low-income communities, and low-income households across California. For more information, visit the California Climate Investments website at: www.caclimateinvestments.ca.gov.

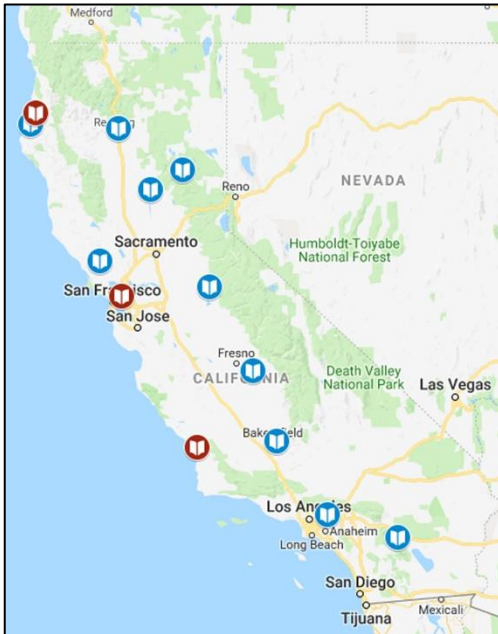


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Forestry Challenge Initiative to Promote College and Career Readiness



Hello Teachers! We've done a lot of information gathering in order to provide a well-rounded list of college and career options for students to explore in forestry and natural resources. Our website has been updated with a collection of videos about professions in the industry. We continue to publish our College and Career newsletter with information on college programs and career opportunities. We will set out a sign-up sheet for students who would like to subscribe. Colleges throughout California have provided informational brochures about their forestry programs that are available to students during events and will be sent home with advisors to be given to each school's college and career guidance office.

Forestry Challenge Scholarship Program

Redwood Empire, a division of Pacific States Industries, and the Burch Family awarded scholarships to assist students who plan to obtain a college degree in Forestry and participated in one or more Forestry Challenge events. In addition, the Los Angeles Hardwood Lumberman's Club awarded scholarships to these four recipients. Recipients must be enrolled in a program that leads to a degree in Forestry or a closely related field. The 2023 recipients are Kelly Cantrell, a Foresthill High School graduate attending University of Montana, Sloan Farinha, a Foresthill High School graduate attending UC Berkeley, and Nishita Dashpute, a Charter Oak High School graduate attending UC Berkeley, and Mackenzie Waverly, an Amador High School graduate attending Northern Arizona University.



Sloan
Farinha



Kelly
Cantrell



Nishita
Dashpute



Mackenzie
Waverly

EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, October 25, 2023

4:00 to 5:30 Registration – Meeting Hall

5:30 to 6:30 Dinner – Dining Hall

6:45 to 7:00 Welcome – Caldor Auditorium

❖ Please gather by 6:40

❖ Bring Focus Topic Question, Paper, and Pencil

7:00 to 8:15 Focus Topic Question presented / Q&A

8:30 to 10:00 Night Hike and Go Karts

10:00 Report to Dorms

10:30 Lights Out

Thank You to the 2023 El Dorado Forestry Challenge Volunteers

Without volunteers, the Forestry Challenge simply wouldn't happen. Here are the individuals who gave their time and expertise for this event:

Adam Kay
Adan Mendoza
Andrew Stunz
Beth Wright
Billy Adams
Bridget Tracy
Caelyn O'Harra
Chris Dow
Chris Murphy
Colleen Sloan
David Thompson
Ed Struffenegger
Emily Staller

Erica Bigio
Erin Rose
Ernie Lory
Evan Vanderwouw
John Nicoles
John Taylor
John Kelly
Justin Barker
Katie Burkett
Katie Reidy
Lars Thompson
Mark Mueller
Mark Stewart

Noah Van Atta
Noelle Takamori
Patrick McDaniel
Phillip Huffman
Reanna Suela
Rich Wade
Rick Hopson
Susan Durham
Tim Treichelt
Todd Bertwell
Tom Francis
Walt Ruzzo

EXPANDED SCHEDULE FOR THURSDAY

Thursday, October 26, 2023

8:00 to 8:45 Breakfast

8:45 to 9:00 Field Training Introduction

- ❖ Gather in front of Meeting Hall
- ❖ Training Worksheets will be distributed at breakfast

9:15 to 12:00 Field Training

12:00 to 12:10 Gather for Data Collection in Parking Lot

- ❖ Bring Focus Topic Question, Camera, Paper, Clipboards, and Water Bottle (and tools if your school brought them)
- ❖ Wear long sleeves, jeans, and boots

12:10 to 12:30 Travel to Taylor Property

12:30 to 1:15 Lunch

1:15 to 4:30 Data Collection

4:30 to 5:00 Travel back to Leoni Meadows

5:30 to 6:30 Dinner

7:00 to 10:30 Students Prepare Presentations in Dining Hall

- ❖ Each team should have their own table
- ❖ Laptops should be used
- ❖ Students should not leave without permission (except for Ask a Forester appointments)

7:15 “Ask a Forester” introductions in Dining Hall

7:20 to 9:30 “Ask a Forester” appointments in Caldor Auditorium

10:30 Turn in Computers and Report to Dorms

11:00 Lights out

THURSDAY A.M. FIELD TRAINING NOTES

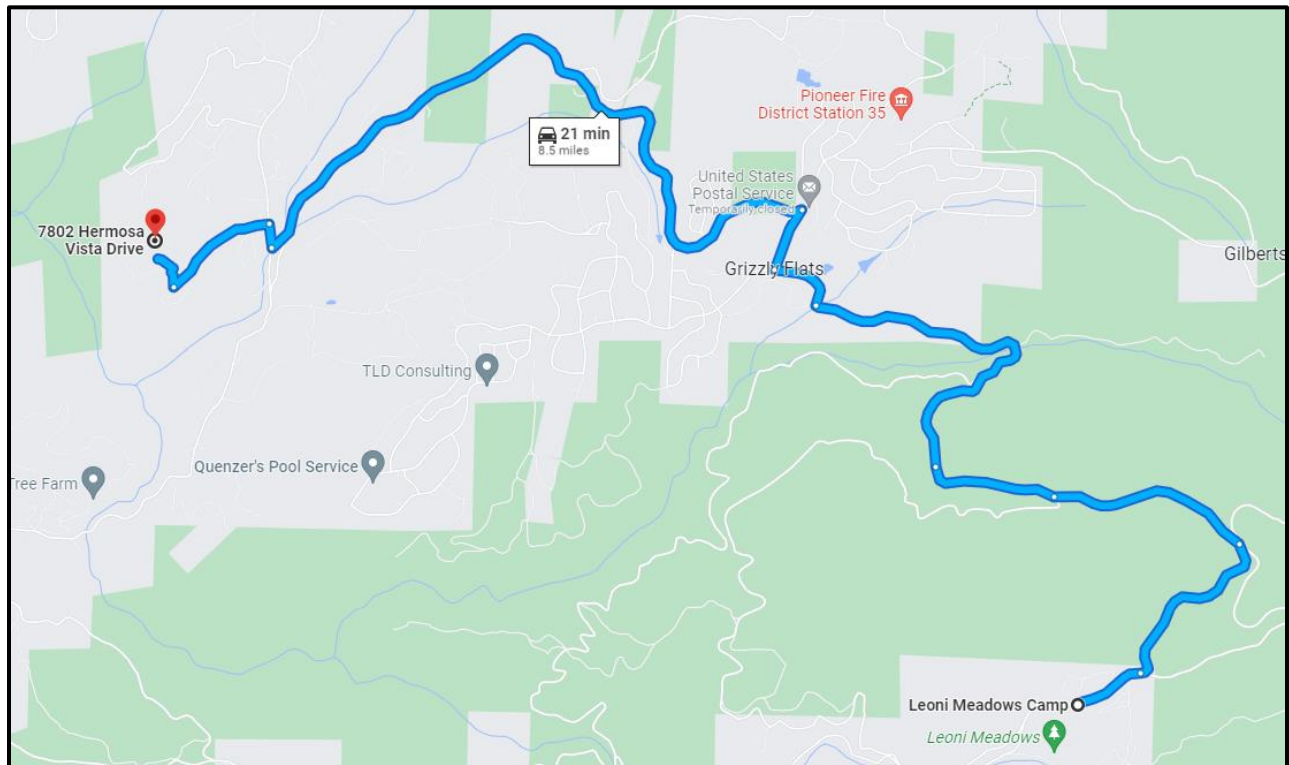
We will have two training tracks, A & B, that your team will divide between. Try to split each team as evenly as possible between the two training tracks. Track A needs the angle gauges and Track B will keep the cruiser vest. The tracks are as follows:

Training Track A	9:15 - 9:55	9:55 - 10:35	10:35 – 11:15	11:15 – 11:55
Tree ID, Species Comp Surveys, Canopy Position	Teams 0 – 8	Teams 25 – 32	Teams 17 – 24	Teams 9 – 16
Angle Gauge, Limiting Distance Table, Increment Borer	Teams 9 – 16	Teams 0 – 8	Teams 25 – 32	Teams 17 – 24
Volume Tables, Market Values	Teams 17 – 24	Teams 9 – 16	Teams 0 – 8	Teams 25 – 32
Maps	Teams 25 – 32	Teams 17 – 24	Teams 9 – 16	Teams 0 – 8

Training Track B	9:15 - 9:55	9:55 - 10:35	10:35 – 11:15	11:15 – 11:55
Dichotomous Plant Keys	Teams 0 – 8	Teams 25 – 32	Teams 17 – 24	Teams 9 – 16
Diameter Tape, Clinometer, Biltmore Stick, Pacing	Teams 9 – 16	Teams 0 – 8	Teams 25 – 32	Teams 17 – 24
Compass, Densitometer	Teams 17 – 24	Teams 9 – 16	Teams 0 – 8	Teams 25 – 32
Tech – Plot Hound	Teams 25 – 32	Teams 17 – 24	Teams 9 – 16	Teams 0 – 8

- ❖ Teams should assemble in front of the Leoni Lodge no later than 8:55.
- ❖ Training worksheets will be handed out just prior to training.
- ❖ Wear long pants and close-toed shoes.
- ❖ Bring your clipboard, calculator, and forestry tools.
- ❖ You may bring study materials and paper with you for taking notes.

Driving directions to the Taylor Property



The address is 7802 Hermosa Vista Drive in Somerset. Retrace your path out of Leoni Meadows and toward Grizzly Flats, turning right at Sciaroni Road and taking a sharp left onto String Canyon Road. Drive 3.2 miles and turn right onto Cosumnes Mine Road. Take the first left onto Hermosa Vista Drive and look for the sign with the Taylor's house number.

2023 EL DORADO FORESTRY CHALLENGE "ASK A FORESTER" NOTES AND GUIDELINES

- Ask a Forester schedules will be available Thursday evening before appointments begin.
- Arrive a few minutes before your scheduled appointment time.
- Appointments are 20 minutes in length.
- Bring any materials with you that will help make your appointment productive.
- Any number of team members may go to the appointment.
- Advisors may not go to the appointment.

EXPANDED SCHEDULE FOR FRIDAY

Friday, October 27, 2023

Time	Teams 0-16	Teams 17-32
8:00 to 9:00	Breakfast	
9:00 to 9:30	Gather for Field Testing Instructions (All Teams)	
9:30 to 12:00	Challenge Course Activities	Field Testing
12:00 to 1:00	Lunch	
1:00 to 1:30	Gather for Field Testing and Travel to Testing Stations	Walk to Challenge Course
1:30 to 4:00	Field Testing	Challenge Course Activities
4:00 to 5:00	Test Review, Pacing Contest, School Photos	
5:00 to 5:30	Group Photo	
5:30 to 6:30	Dinner	
6:30 to 6:45	Instructions about Presentation Procedures	
6:45 to 9:30	Teams Finish Preparing Presentations – Meeting Hall At 9:30 all teams must turn in their laptops and presentations	
9:30 to 10:30	Stargazing, Campfire	
10:30	Report to Dorms	

FRIDAY FIELD TESTING SCHEDULE

Time Station	9:30 to 10:02	10:10 to 10:42	10:50 to 11:22	11:30 to 12:02
Upper Loop	Teams 17 - 20	Teams 29 - 32	Teams 25 - 28	Teams 21 - 24
Apple Tree	Teams 21 - 24	Teams 17 - 20	Teams 29 - 32	Teams 25 - 28
Burned Stump	Teams 25 - 28	Teams 21 - 24	Teams 17 - 20	Teams 29 - 32
Gravel Flat	Teams 29 - 32	Teams 25 - 28	Teams 21 - 24	Teams 17 - 20

Time Station	1:30 to 2:02	2:10 to 2:42	2:50 to 3:22	3:30 to 4:02
Upper Loop	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8
Apple Tree	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12
Burned Stump	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16
Gravel Flat	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4

Important Information about Field Testing:

- * Testing stations will be 32 minutes each with 8-minute rotations in between.
- * Teachers will travel in the same rotation with their team but may not interact with team members at any time during the testing periods. They may, however, look at a blank copy of the test provided by the person in charge of the test station.
- * Teachers need to be aware of the route to the next station and will be responsible for getting their group of students there on time.
- * Teams cannot use notes, written materials, or forestry tools except those given to them at the stations.
- * Teams are responsible for bringing their own clipboard.
- * Students will return all tools before moving to the next testing station.
- * At the end of the afternoon test session, Test Keys will be posted for teams for review and students will have an opportunity to revisit the stations if there are any questions.

El Dorado Forestry Challenge Champions

2003 – Nevada Union High School	2013 – Franklin High School
2004 – Rio Vista High School	2014 – Amador High School
2005 – Elk Grove High School	2015 – Bella Vista High School
2006 – Foresthill High School	2016 – Vista Del Lago High School
2007 – Napa New Technology H.S.	2017 – Sac New Tech High School
2008 – Ponderosa High School FFA	2018 – Foresthill High School
2009 – Ponderosa High School FFA	2019 – Foresthill High School
2010 – Franklin High School	2021 – El Dorado High School
2011 – Ponderosa High School APES	2022 – El Dorado High School
2012 – Ponderosa High School FFA	2023 – TBD

Pacing Contest:

The goal of this contest is to pace a 66-foot distance without the use of any measuring device. To practice for this contest, we will mark a 66-foot distance on the sidewalk in front of the Meeting Hall. Stand with your heels on one line and walk with a comfortable step until your toes touch the other line. Once you know how many steps (or paces) you walk, try it without the lines. Then, measure your distance to see how close you are. Note: you will need to know how to do this anyway in order to measure trees using only a Biltmore stick.

Each school will mark the beginning and end of their chain. Each school gets one entry. The school that can pace a distance closest to 66 feet wins the contest and takes possession of the coveted “board foot” trophy.

El Dorado Forestry Challenge Pacing Contest Winners

2004 – Amador High School	2013 – Santa Maria High School
2005 – Nevada Union High School	2014 – Marysville High School
2006 – Grant High School	2015 – Marysville High School
2007 – Napa New Technology H.S.	2016 – Sac New Tech High School
2008 – Vista del Lago High School	2017 – Golden Sierra High School
2009 – Foresthill High School	2018 – Mira Loma High School
2010 – Franklin High School	2019 – Independence High School
2011 – Ponderosa High School APES	2021 – Calaveras High School
2012 – Franklin High School	2022 – Placer High School

EXPANDED SCHEDULE FOR SATURDAY

Saturday, October 28, 2023

8:00 to 9:00	Pack a Grab and Go Breakfast and Lunch
8:15 to 9:00	Judges Orientation – Leoni Lodge Lobby ❖ For Judges and Timekeepers only
9:15 to 11:15	ALL TEAMS - Report to Dorm Lobby before first round of presentations ❖ Presentation room assignments distributed Friday evening ❖ All teams must complete thank you notes and evaluation forms before leaving holding area
11:20 to 11:45	Judging Panel Feedback to Students – Campfire Bowl
11:45 to noon	Awards – Campfire Bowl
Noon	Farewell

Presentation Notes:

- * If your presentation time is not suitable, you are free to trade with another team if both agree. Just let us know.
- * Teachers and parents may listen to their own team's presentation(s) but may not listen to other teams.
- * Each presentation location will have three judges, one of whom will serve as timekeeper.
- * The timekeeper will start timing when the presentation begins and show a 5 and a 1 minute warning card. The timekeeper will stop the presentation when time is up, even if the team is not finished.
- * The timekeeper will time the 5 minute question and answer period, with a 1 minute warning.
- * Teams will be able to keep their presentation materials. We encourage teams to give their presentations at school and in the community.
- * All teams will attend a review session from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

