



**San Bernardino Forestry Challenge**  
**Session 1 November 6-9**  
**Session 2 November 13-16**  
**Hubert Eaton Scout Camp**

# **2024 SAN BERNARDINO FORESTRY CHALLENGE**

## **SCHEDULE OF EVENTS**

### **Wednesday**

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 Cabins

### **Thursday**

8:00 to 8:45	Breakfast
8:55 to 9:00	Gather for Field Training
9:15 to 12:00	Field Training
12:00 to 12:45	Lunch
1:00 to 1:15	Gather for Data Collection
1:15 to 4:30	Data Collection at Camp Big Horn
4:30 to 5:00	Return to Camp Pollock
5:30 to 6:30	Dinner
7:00 to 10:30	Teams Prepare Presentations / Ask a Forester appointments
10:30	Report to Cabins

### **Friday**

8:00 to 9:00	Breakfast
9:00 to 9:30	Gather for Field Testing Instructions
9:30 to 12:00	Field Testing / Activities, Pacing Contest, School Photos
12:00 to 1:00	Lunch
1:00 to 1:30	Group Photo
1:45 to 4:25	Field Testing or Free Time / Activities, Pacing Contest, School Photos
4:45 to 5:15	Field Test Review
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 Cabins

### **Saturday**

8:00 to 8:45	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

**First Aid and Staff in Infirmary - Call 530-417-1960**

### **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

# 2024 Forestry Challenge Rules

## I. Participant Eligibility

1. Students enrolled in grades 9 through 12 are eligible to participate. Community college students and 8<sup>th</sup> 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
  - San Bernardino FC registration, due November 13
  - San Bernardino FC Session 1 registration, due November 27
  - San Bernardino FC Session 2 registration due November 3
2. There is no registration fee for the 2024 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 November 4
  - San Bernardino FC deposits are due November 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](http://www.caclimateinvestments.ca.gov).*



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## **EXPANDED SCHEDULE FOR WEDNESDAY**

4:00 to 5:30 Registration – Pollock Lodge 1

5:30 to 6:30 Dinner – Dining Hall

6:45 to 7:00 Welcome – Training Center

❖ 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 Evening Activities

10:00 Report to Cabins

10:30 Lights Out

### **Thank You to the 2024 San Bernardino 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:

April Karlinsky  
Henrey Herrera  
Greg Dion  
Marco DeAnda  
Nikhita Attganal  
Jagadeesh  
Dan Cullinane  
Sheri Harris  
Elisha Duong-Paul  
Jennifer Alford  
Jon Cartwright  
Kaylee Burr

Bobbi-Jo Burr  
David Haas  
Kimberly Hansen  
Alexandria Sabido  
Kelly Sypolt  
Jose Torres  
Kayla Thompson  
Aimelia Reed  
Laura Dyberg  
Malena Lacque  
Robin Gruer  
Samantha Conn  
Darrik Carlson

Steve Whitehorn  
Kiernan Hagan  
Rozlyn Lomeli  
Sky Madrigal  
Rich Wade  
Walt Ruzzo  
Jocelyn Perez  
Myla Hagan  
Ganiel Cobian-Jimenez  
Ryan Kuruppu  
Elizabeth Aparicio  
Lucia Medina Manzano

## **EXPANDED SCHEDULE FOR THURSDAY**

- 8:00 to 8:45 Breakfast
- 8:55 Field Training Introduction
- ❖ Gather behind Training Center
  - ❖ Training Worksheets will be distributed at breakfast
- 9:15 to 12:00 Field Training
- 12:00 to 12:45 Lunch
- 1:00 to 1:15 Gather for Data Collection
- ❖ Bring Focus Topic Question, Camera, Paper, Clipboards, and Water Bottle (and tools if your school brought them)
  - ❖ Wear long sleeves, jeans, and boots
- 1:15 to 1:45 Walk to Camp Big Horn
- 1:45 to 4:30 Data Collection
- 4:30 to 5:00 Walk back to Camp Pollock
- 5:30 to 6:30 Dinner
- 7:00 to 10:30 Students Prepare Presentations in Training Center
- ❖ 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 Training Center
- 7:20 to 9:30 “Ask a Forester” appointments in wings of Training Center
- 10:30 Turn in Computers and Report to Cabins
- 11:00 Lights out

## Training Schedule

Training Track A	9:15 - 9:55	9:55 - 10:35	10:35 - 11:15	11:15 - 11:55
Growing Regions, Tree ID, Species Composition	Teams 1-8	Teams 25-32	Teams 17-24	Teams 9-16
Angle Gauge, Increment Borer, Site Class	Teams 9-16	Teams 1-8	Teams 25-32	Teams 17-24
Volume Tables, Market Values	Teams 17-24	Teams 9-16	Teams 1-8	Teams 25-32
Maps	Teams 25-32	Teams 17-24	Teams 9-16	Teams 1-8

Training Track B	9:15 - 9:55	9:55 - 10:35	10:35 - 11:15	11:15 - 11:55
Dichotomous Plant Keys	Teams 1-8	Teams 25-32	Teams 17-24	Teams 9-16
Diameter Tape, Clinometer	Teams 9-16	Teams 1-8	Teams 25-32	Teams 17-24
Compass, Pacing, Densitometer	Teams 17-24	Teams 9-16	Teams 1-8	Teams 25-32
Tech	Teams 25-32	Teams 17-24	Teams 9-16	Teams 1-8

## 2024 SAN BERNARDINO 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 15 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

Time	Teams 1-16	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	Field Testing	Free Time / Activities TBD
12:00 to 1:00	Lunch	
1:00 to 1:30	Group Photo	
1:45 to 4:25	Free Time / Activities TBD	Field Testing
4:45 to 5:15	Test Review	
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	Evening Activities	
10:30	Report to Cabins	

## FRIDAY FIELD TESTING SCHEDULE

<b>Time Station</b>	<b>9:30 to 10:10</b>	<b>10:10 to 10:50</b>	<b>10:50 to 11:30</b>	<b>11:30 to 12:10</b>
<b>Culvert</b>	Teams 1-4	Teams 13-16	Teams 9-12	Teams 5-8
<b>Shed</b>	Teams 5-8	Teams 1-4	Teams 13-16	Teams 9-12
<b>Bridge</b>	Teams 9-12	Teams 5-8	Teams 1-4	Teams 13-16
<b>Roadway</b>	Teams 13-16	Teams 9-12	Teams 5-8	Teams 1-4

<b>Time Station</b>	<b>1:45 to 2:25</b>	<b>2:25 to 3:05</b>	<b>3:05 to 3:45</b>	<b>3:45 to 4:25</b>
<b>Culvert</b>	Teams 17-20	Teams 29-32	Teams 25-28	Teams 21-24
<b>Shed</b>	Teams 21-24	Teams 17-20	Teams 29-32	Teams 25-28
<b>Bridge</b>	Teams 25-28	Teams 21-24	Teams 17-20	Teams 29-32
<b>Roadway</b>	Teams 29-32	Teams 25-28	Teams 21-24	Teams 17-20

### **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 leave all tools in place before moving to the next task center.
- 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.

## **San Bernardino Forestry Challenge Champions**

2014 – CA Academy of Math & Science  
2015 – Los Osos High School  
2016 – Los Osos High School  
2017 – Oxford Academy  
2018 – John W. North High School  
2019 – John W. North High School  
2021 – Palisades Charter High School  
2022 Session 1 – Oxford Academy  
2022 Session 2 - Oceanside High School  
2023 Session 1 – Palisades High School  
2023 Session 2 – Oceanside High School

## **San Bernardino Forestry Challenge Pacing Contest Winners**

2014 – CA Academy of Math & Science  
2015 – Littlerock High School  
2016 – Los Osos High School  
2017 – Oxford Academy  
2018 – Charter Oak High School  
2019 – Oxford Academy  
2021 – Littlerock High School  
2022 Session 1 – Granada Hills Charter  
2022 Session 2 – Oceanside High School  
2023 Session 1 – Charter Oak High School  
2023 Session 2 – Esperanza College Prep

### **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.

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.

### **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. Applications are due in August of each year. Check the scholarship page on the website for more information.

## **EXPANDED SCHEDULE FOR SATURDAY**

8:00 to 8:45	Breakfast – Dining Hall
8:15 to 9:00	Judges Orientation – Ponderosa Lodge 1 ❖ For Judges and Timekeepers only
9:00 to 11:15	ALL TEAMS - Report to Training Center 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 – Amphitheater
11:45 to noon	Awards – Amphitheater
Noon	Lunch and 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.