



Mary A. Crocker
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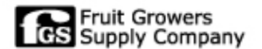


THE
TREICHEL
GIVING FUND

RED RIVER
FORESTS
LLC



BORDGES
TIMBER



www.forestrychallenge.org

San Bernardino Forestry Challenge
November 6 to 9, 2019
Green Valley Lake Christian Camp

2019 SAN BERNARDINO FORESTRY CHALLENGE

SCHEDULE OF EVENTS

Wednesday, November 6, 2019

4:00 to 5:30	Registration
5:30 to 6:40	Dinner
6:50 to 8:00	Welcome and Focus Topic Question Presented / Q&A
8:30 to 10:00	Evening Social Time / Night Hike
10:00	Report to Dorms

Thursday, November 7, 2019

8:00 to 8:45	Breakfast
9:00 to 12:00	Field Training
12:00 to 1:00	Lunch
1:00 to 2:00	Gather and Travel to Field Trip
2:00 to 4:30	Field Trip
5:30 to 6:30	Dinner
6:30 to 6:45	Dinner Clean-up
6:45 to 10:00	Teams Prepare Presentations
7:20 to 9:45	"Ask a Forester" Appointments
10:15	Report to Dorms

Friday, November 8, 2019

Time	Teams 1 - 16	Teams 17 - 30
8:00 to 9:00	Breakfast	
9:00 to 9:30	Gather and Travel to Field Testing	Ropes Features & Zipline Pacing Contest
9:30 to 12:00	Field Testing	
12:00 to 1:00	Lunch	
1:00 to 1:30	Group Photo	
1:30 to 2:00	Ropes Features & Zipline Pacing Contest	Gather and Travel to Field Testing
2:00 to 4:30		Field Testing
5:00 to 5:30	Test Keys Distributed	
5:30 to 6:30	Dinner	
7:00 to 9:30	Teams Finish Preparing Presentations	
9:30 to 10:30	Recreation Time	
10:30	Report to Dorms	

Saturday, November 9, 2019

8:15 to 9:00	Breakfast
8:15 to 9:00	Judges Orientation
9:15 to 11:10	Teams Give Presentations – report to presentation room or holding area
10:15 to 11:00	Teams pack up and clean dorms when finished presenting and in holding area
11:20 to 11:45	Judging Panel Feedback to Students
11:45 to 12:00	Awards
12:00	Lunch and Farewell

2019 San Bernardino Forestry Challenge Participants

<u>School</u>	<u>City</u>	<u>Advisor(s)</u>	<u>Team #'s</u>
Anaheim	Anaheim	Angela Metcalfe	5, 6
CAMS	Carson	Yolanda Brito, Bridget Acuna	1, 2, 3
Charter Oak	Covina	Ray Edmondson, Brian Sneed, Lillian Shabani	7, 8
Citrus Hill	Perris	Debbie Wroblewski, Justin Evans	9, 10, 11
Coachella Valley	Thermal	DeAnn Foster	29
Cypress	Cypress	Erin Doherty	28
J. W. North	Riverside	Lillian McCandless, Ricky Dama	25, 26
Littlerock	Littlerock	Robin Olsen	27
Lynwood	Lynwood	Sergio Comparan	13, 14
Marco A. Firebaugh	Lynwood	Linda Sciaroni	15, 16
Orange Vista	Perris	LeAnn Douhan, Luis Landin	12
Oxford	Cypress	Robert Nguyen	24
Riverside STEM	Riverside	Lana Taylor, Jeremy Standerfer	21, 22, 23
San Jacinto Valley	San Jacinto	Kailee Ward	19, 20
Sonora	La Habra	Mary Riley	4
Vista	Vista	Sara Benner	17, 18

Housing Assignments

<u>Dorm</u>	<u># & Gender</u>	<u>Schools</u>
E, west side	25 Males	O. Vista, Oxford, Riverside, San Jac, Sonora, Vista
E, east side	25 Males	Anaheim, CAMS, Ch. Oak, Cit. Hill, JW North, Littlerock, Lynwood, Firebaugh
M, north side	19 Females	Anaheim, CAMS
M, south side	19 Females	Charter Oak, Citrus Hill
N, north side	18 Females	Coachella Valley, Cypress, JW North
N, south side	19 Females	Lynwood, Firebaugh, Riverside STEM
O, north side	21 Females	Littlerock, Oxford, Orange Vista, Sonora, Vista

Lodge B

Diane and Staff

530-417-1960 (limited reception)

San Bernardino Forestry Challenge Champions

2014 – CA Academy of Mathematics and Science
 2015 – Los Osos High School
 2016 – Los Osos High School
 2017 – Oxford Academy
 2018 – J. W. North High School

Pacing Contest Winners

2014 - CA Academy of Mathematics and Science
 2015 – Littlerock High School
 2016 – Los Osos High School
 2017 – Oxford Academy
 2018 – Charter Oak High School

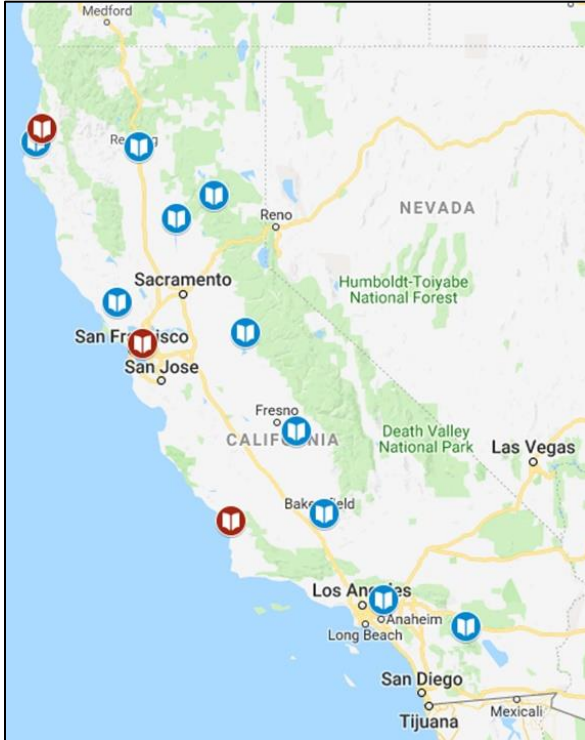
2019 California Forestry Challenge Rules

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 FC coordinator.
2. Teams will consist of two to five students from the same school, home school, tribe, or scouting group. More than one team may enter from each school as space permits. 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 advisor 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. Schools that pre-register by May 31, 2019 ~~will~~ may receive a discount on the registration fees listed below. Schools that pre-register after May 31 will be expected to pay the registration fees listed below.
6. A completed registration form (available online) must be received 12 days prior to the start of the event.
7. Registration fee due dates and anticipated amounts are as follows:
 - Shasta FC fees are \$110 per person, due September 25
 - Santa Cruz FC fees are \$200 per person, due October 9
 - El Dorado FC fees are \$120 per person, due October 23
 - San Bernardino FC fees are \$160 per person, due November 6
8. Registration fees are due upon arrival to the event and must be paid for each person attending, including teachers and adult chaperones. Fees for advisors' infants and small children may be modified on a case-by-case basis.
9. Teachers will be asked to use the online registration fee calculator as an indicator of attendance numbers for their school. This form can also be used as an invoice to initiate payment by their district.
10. Registration fee totals will be considered final the Friday before the event begins based on the registration fee calculator or subsequent updates provided to the FC Coordinator.
11. Student substitutions of the same gender are allowed between the Friday prior and up to the start of the event.
12. There will be no refunds for students or advisors who cancel after the Friday before the event, and registration fees for persons who do not attend are non-refundable.
13. 2019 is the last year to use registration fee credits from previous years.
14. 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.
15. Only registered participants with signed forms will be allowed on site.
16. Chaperones and students will check in together unless prior arrangements are made with the FC Coordinator.
17. At least one team advisor must always be on site with their students and will be responsible to assure that team members display proper conduct during the event and at the host facility.
18. Participants will report any illness or personal emergency to the Coordinator or designated staff.
19. 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.
20. All students must attend and fully participate in all scheduled activities.
21. Although advisors must attend all activities in order to properly supervise students, they are not allowed to actively participate in field testing or focus topic presentation preparation.

22. The use of personal electronic devices such as cell phones is restricted to free time or in the case of an emergency. Recording devices may be used during field training, data collection, and Ask a Forester.
23. Students must report to and stay in their assigned cabins 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.
24. No students or advisors are allowed to leave the host site without approval.
25. Tobacco, drugs, and alcohol are prohibited during all parts of the event.
26. Transportation to, from, and during an event will be the responsibility of each participating team unless transportation is provided during an event.
27. 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.
28. 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 at the conclusion of the testing period, to be returned by the end of the testing day. The FC Coordinator or designee will be available to answer questions.
29. Test questions will be devised 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 field trip and field training may be tested as well.
30. Students will not be allowed to use their own 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.
31. Any and all written and electronic materials teams bring to the event and gather while at the event may be used to prepare the Presentation. 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.
32. 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 their presentation time begins.
33. Each team's Field Test and Presentation scores will be totaled, and overall place awards will be given accordingly. All participants will receive a Certificate of Participation.
34. 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.
35. Students and advisors will be asked to complete an evaluation form at the conclusion of the event.
36. 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.
37. FC rules are subject to change by the Coordinator. Any and all changes will be explained in advance to all teams and advisors.
38. Host site/facility rules will be enforced in addition to FC Rules.
39. Any infraction of any of the FC Rules could result in disqualification and/or dismissal from the event and the host site.

2019 updates to the rules are italicized and underlined

Forestry Challenge Initiative to Promote College and Career Readiness



Hey Teachers! We've done a lot of information gathering recently 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. There will be a sign-up sheet for students who would like to subscribe. It will be available near the college and career brochure display.

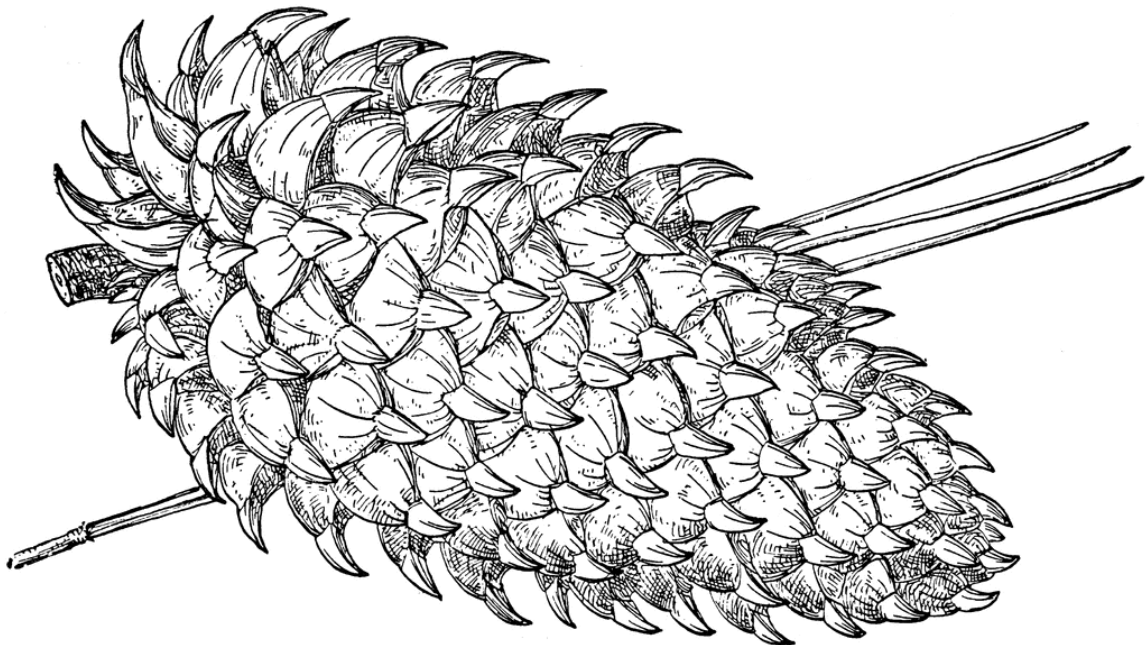
NEW THIS YEAR! We will be giving you a collection of career, two-year college, and four-year college pamphlets in file folders to take back to your guidance office.

In addition to this, each year, Redwood Empire, a division of Pacific States Industries and the Burch Family, awards scholarships to assist students who plan to obtain a college degree in Forestry and participated in one or more Forestry Challenge events. Recipients must be enrolled in a program that leads to a degree in Forestry or a closely related field. The 2019 recipient of a \$2,000 scholarship is Emily Staller, a student at Northern Arizona University pursuing her Bachelor of Science in Forestry.

EXPANDED SCHEDULE FOR WEDNESDAY

Wednesday, November 6, 2019

- 4:00 to 5:30 Registration – Check-in at Front Office
- 5:30 to 6:40 Dinner – Dining Hall
- 6:50 to 7:00 Welcome – Chapel
 ❖ Please gather by 6:45
 ❖ Bring Focus Topic Question, Paper, and Pencils
- 7:00 to 8:00 Focus Topic Question presented
- 8:00 to 8:30 Break / Late Registration
- 8:30 to 10:00 Night Hike and Social Time – Rec Hall
- 10:00 Report to Dorms
- 10:30 Lights Out

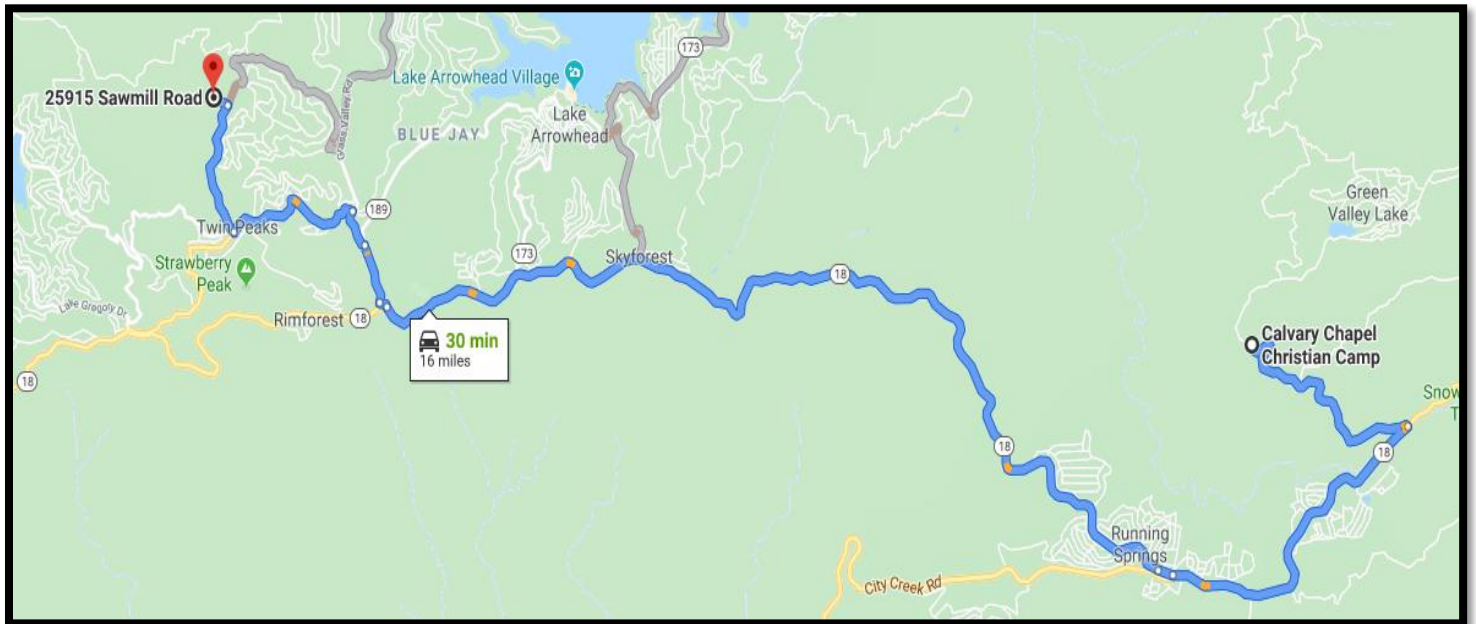


Directions to Field Trip Site

The Field Trip Site Address is 25915 Sawmill Road, Twin Peaks, CA

From Green Valley Lake Camp Entrance:

- Head south on Green Valley Lake Rd for 1.9 miles
- Turn right onto CA-18 and continue for 2.6 miles
- Continue straight onto CA-330 South
- Merge back onto CA-18 and continue for 8.2 miles
- Turn right onto Daley Canyon Rd for 0.4 mile
- Turn left onto CA-189 W for 0.3 mile
- Turn left to stay on CA-189 W for 1.2 miles
- Turn right onto Grandview Road and continue for 1 mile
- Turn left onto Sawmill Road



EXPANDED SCHEDULE FOR THURSDAY

Thursday, November 7, 2019

- 8:00 to 8:45 Breakfast – Dining Hall
- 8:45 to 8:55 Field Training Introduction
- ❖ Gather on lawn in front of Dining Hall
 - ❖ See Training Rotation Schedule for list of what to bring
- 9:05 to 12:00 Field Training
- 12:00 to 1:00 Lunch
- 12:30 to 1:15 Gather for Field Trip in Parking Lot

12:30	Field Trip Bus Round 1: Cypress, Oxford, Riverside, San Jacinto
1:00	Caravan: Schools with Vehicles
1:30	Field Trip Bus Round 2: Anaheim, CAMS, Lynwood, Firebaugh

- 12:30 or 1:30 Travel to Field Trip Site (see table above)
- 1:30 to 4:30 Field Trip / Data Collection
- 3:30 or 4:45 Load Busses (Round 1 at 3:30, Round 2 at 4:45)
- 4:15 or 5:15 Arrive back to Green Valley Lake Christian Camp
- 5:30 to 6:30 Dinner – Dining Hall
- 6:30 to 6:45 Dinner Clean Up
- 6:45 to 10:00 Teams Prepare Presentations – Dining Hall
- ❖ Laptops available for loan if needed
 - ❖ Students should not leave Dining Hall except for Ask a Forester appointments
- 7:20 to 9:45 “Ask a Forester” appointments – Rec Hall
- 10:15 Report to Dorms
- 11:00 Lights out

THURSDAY A.M. FIELD TRAINING ROTATION SCHEDULE

New! This year, we are trying a new training schedule.

We will have two training tracks, A & B, that your team(s) will divide between. Try to split each team as evenly as possible between the two training tracks. The tracks are as follows:

Track A

- CA Forest Types, Tree ID, Species Composition
- Dichotomous Plant Keys
- Volume and Market Values
- Densitometer

Track B

- Diameter tape, Clinometer
- Angle gauge, Limiting distance, Stocking
- Maps
- Compass, Pacing

- Teams should assemble in the parking lot no later than 8:50.
- Training schedules will be handed out at breakfast.
- Training Worksheets will be handed out just prior to training.
- Wear long pants and close-toed shoes.
- Bring your clipboard, training worksheet, pencil(s), and calculator.
- You may bring study materials and paper with you for taking notes.

2019 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 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, November 8, 2019

Time	Teams 1 - 16	Teams 17 - 30
8:00 to 9:00	Breakfast – Teams testing in AM, get in line first	
9:00 to 9:30	Gather near Camp entrance Walk to Testing Area	Ropes Features & Zipline School Photo Pacing Contest
9:30 to 12:00	Field Testing	
12:00 to 1:00	Lunch	
1:00 to 1:30	Group Photo	
1:30 to 2:00	School Photo Pacing Contest Ropes Features & Zipline	Gather near Camp entrance Walk to Testing Area
2:00 to 4:30		Field Testing
5:00 to 5:30	Test Keys Distributed – Dining Hall deck	
5:30 to 6:30	Dinner	
7:00 to 9:30	Teams Finish Preparing Presentations – Dining Hall ❖ By 9:30 all teams must turn in their laptops	
9:30 to 10:30	Social Time / Night Hike	
10:30	Report to Dorms	
11:00	Lights Out	

Friday - Pacing Contest:

The goal of this contest is to pace a 66-foot distance (one chain) without the use of any measuring device. To practice for this contest, mark a 66-foot distance on a sidewalk or parking lot. 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 for the field test.

Pacing Contest Rules

1. One entry per school.
2. Students can work together or have their best person try the pace. Schools can decide as a group how to approach this.
3. The goal is to walk 66 feet without measuring with any device.
4. Each school gets two markers (tape or flags) to mark their distance at the beginning and end of the chain.
5. If using tape, write the school name on both pieces of tape with arrows pointing towards each other. Draw a line from which to measure.
6. No heel to toe or measuring of any kind.
7. Each school must go a different direction; no school can pace right next to another school.
8. All schools (students *and* chaperones) must leave the pacing contest area before results can be obtained.
9. No student - teacher interaction.



FRIDAY FIELD TESTING ROTATION SCHEDULE

Morning

Time Station	9:30 to 10:02	10:10 to 10:42	10:50 to 11:22	11:30 to 12:02
Hilltop	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8
Pathway	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16	Teams 9 - 12
Terrace	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4	Teams 13 - 16
Upstream	Teams 13 - 16	Teams 9 - 12	Teams 5 - 8	Teams 1 - 4

Afternoon

Time Station	2:00 to 2:32	2:40 to 3:12	3:20 to 3:52	4:00 to 4:32
Hilltop	Teams 17 - 20	Teams 27 - 30	Teams 24 - 26	Teams 21 - 23
Pathway	Teams 21 - 23	Teams 17 - 20	Teams 27 - 30	Teams 24 - 26
Terrace	Teams 24 - 26	Teams 21 - 23	Teams 17 - 20	Teams 27 - 30
Upstream	Teams 27 - 30	Teams 24 - 26	Teams 21 - 23	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 return all tools before moving to the next testing station.

At the end of all testing, one Test Key will be provided for each school for review, and participants will have an opportunity to revisit the stations if there are any questions. The test keys will be due back Friday at 9:30 p.m.

EXPANDED SCHEDULE FOR SATURDAY

Saturday, November 9, 2019

- 8:15 to 9:00 Breakfast – Dining Hall
- 8:15 to 9:00 Judges Orientation – Rec Hall
 ❖ For Judges and Presentation facilitators only
- 9:15 to 11:10 ALL TEAMS – Report to Dining Hall OR first round of presentations
 ❖ Room assignments distributed Friday evening
 ❖ All teams must turn in press releases, thank you notes, and
 evaluation forms before leaving Dining Hall
- 11:20 to 11:45 Judging Panel Feedback to Students – Chapel
- 11:45 to 12:00 Awards – Chapel
- 12:00 Lunch and Farewell

Notes:

- * If your presentation time is not suitable, you are free to trade with another team if both agree. Just let Diane 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 and a presentation facilitator.
- * The presentation facilitator will start timing when the presentation begins and show a 5 and a 1 minute warning card.
- * The facilitator will stop the presentation when time is up, even if the team is not finished.
- * The facilitator will time the 5-minute question and answer period, with a 1 minute warning.
- * Teams are encouraged to give their presentation at school and in the community.
- * All teams will attend a review session at the Chapel from 11:20 to 11:45, where the judges will provide feedback to the teams, after which the awards will be presented.

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:

California Forestry Association
Crane Mills
CTL Forest Management
Emerson Logging
Hancock Forest Management
Integrated Forest Management

Joe Thornton Logging
Matt Waverly
Placer County RCD
Rich Wade
The Setzer Foundation
Sierra Resource Management

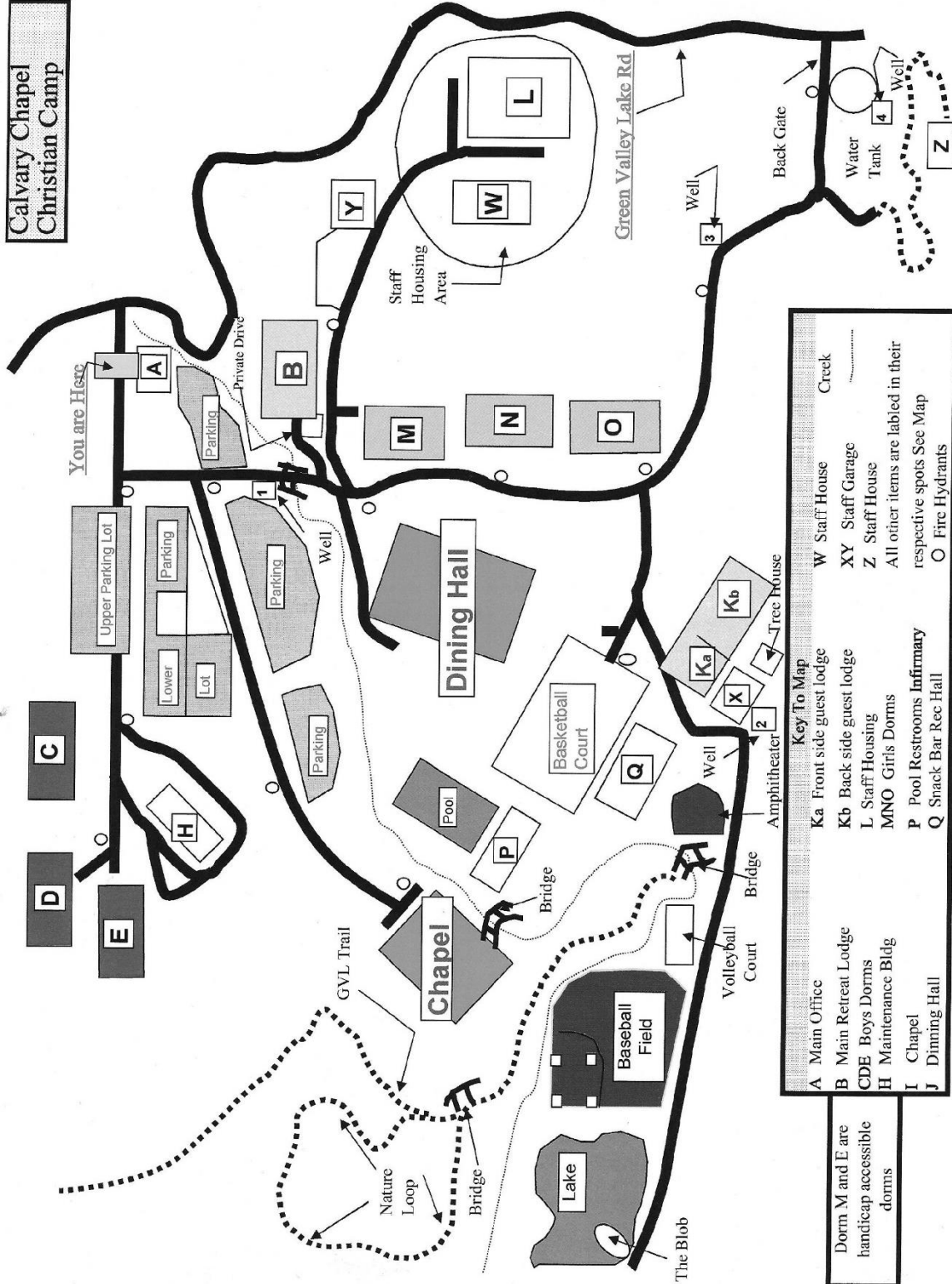
Thank You to the 2019 San Bernardino Forestry Challenge Volunteers

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

Abiel Locke
Alma Eichman
Beth Newman
Bob Broderick
Chris Dias
Christian Larson
Cindy Montanez
Clover Rogers
Crystal Valenzuela
Curtis Newman
Cynthia Chavez
Dan Cullinane
David Haas
Glenn Barley
Ian McBride
Jerry Jensen
Jody Barrass
John McLaughlin

John Todd
Jose Rodriguez
Kathleen Edwards
Kevin Conway
Laura Dyberg
Lisa Gruber
Lyn Dessaux
Makena Plourde
Maritza Esquivel
Monica Curiel
Pat Foy
Patra Foulk
Rich Wade
Samantha Conn
Shari Tindall
Sharon Pate
Stephanie Fowler

**Calvary Chapel
Christian Camp**



Key To Map

A	Main Office	Ka	Front side guest lodge	W	Staff House
B	Main Retreat Lodge	Kb	Back side guest lodge	XY	Staff Garage
CDE	Boys Dorms	L	Staff Housing	Z	Staff House
H	Maintenance Bldg	MNO	Girls Dorms	All other items are labeled in their respective spots See Map	
I	Chapel	P	Pool Restrooms	Infirmary	
J	Dimming Hall	Q	Snack Bar	Rec Hall	

Dorm M and E are handicap accessible dorms

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