

Reforestation for Non-Industrial Landowners: What's New

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What's New: Resources

Reforestation Practices for Conifers in California



Chapter by Chapter book:



Forest Vegetation Management Conference



www.fvmc.org



Reforestation Practices for Conifers in California

Site Assessment-Soils, Aspect, Elevation

Seed/Seedlings/Nursery Logistics

Mechanical Site Prep

Chemical Site Prep

Hiring Crew

Permitting

Timing of Planting

Weather

Competing Vegetation Control- Release Treatments

Insect/Disease/Rodents

Netting

What's New-Grant Funding

CA Forest Improvement Program- CFIP

- Minimum project size is 20 acres
- Cannot combine landowners
- Allows up to \$250k grants with special consideration for grants in excess of that amount- 90% reimbursement program
- Quarterly grant award
- Requires 10 year restriction to maintain property as timber
- Grant period is typically 1 1/ years and allow for extensions

California Climate Investments (CCI) Forest Health Grant

- Minimum project size is 800 acres
- Can combine landowners
- Minimum award is \$750k with max of \$7mm.
- Awarded annually
- Grant term is six years

Grant Funding

Challenge with reforestation is finding a grant program that works for the landowner and fits into the project schedule



17 acres \$490/ac for release spray- Cleantraxx, Accord XRT II with Labor

30 acres release \$612/ac- Cleantraxx, Accord XRT II, Garlon 3A with Labor

Site Prep Spray: \$140/ac – cost of chem no labor

Nursery News

Sierra Pacific Industries awarded a \$3mm CAL FIRE grant for a tree nursery in Gazelle, CA near their existing seed orchard

Projected to have 6 mm seedlings in 2024 ramping up to 25mm seedlings by 2026 when fully operational.

Will employ 10 full time + up to 110 seasonal workers

Cal Forest Nursery in Etna, CA acquired by Mast Reforestation

The grow 25-30 mm seedlings per year

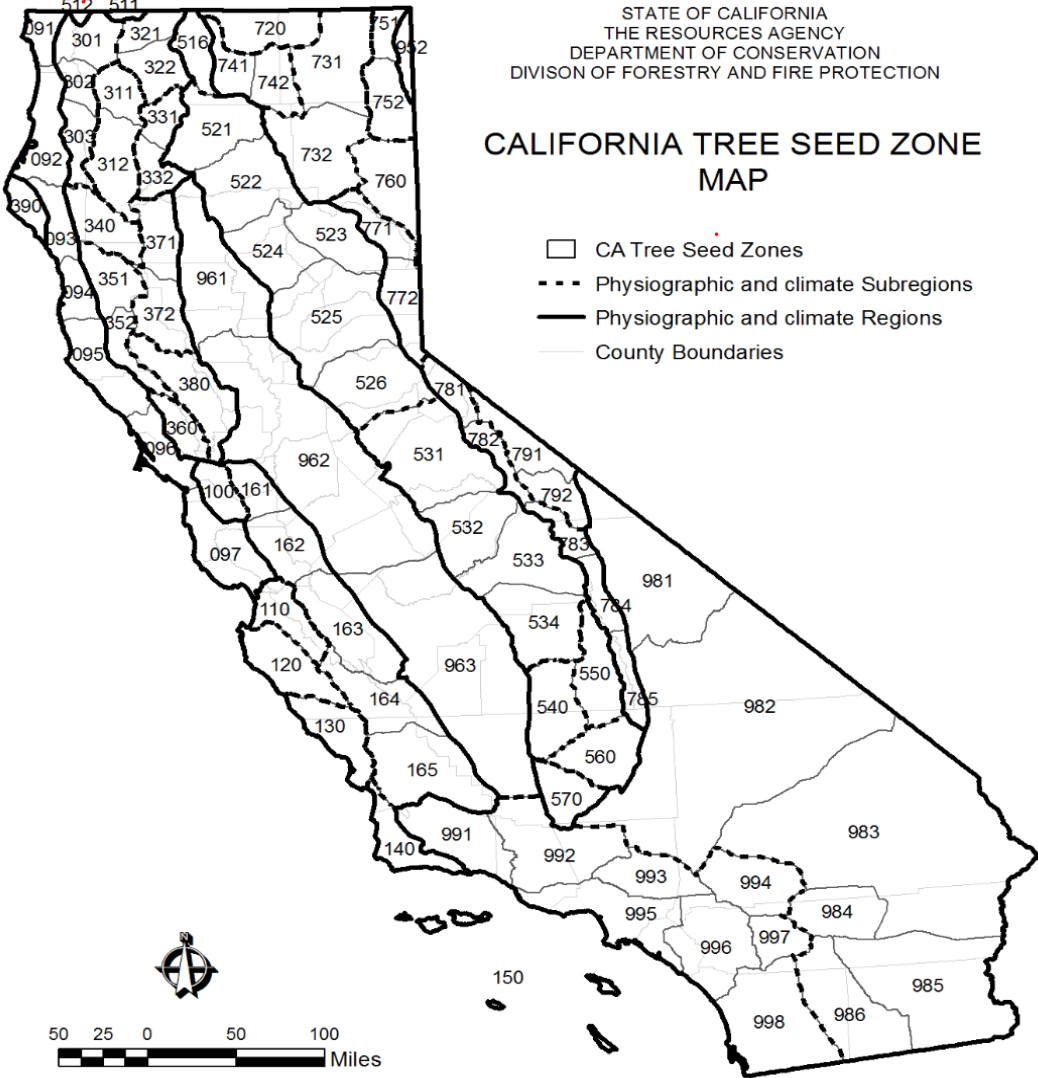
LA Moran is back online



What's New- Seed Collection



What's New- Seed





Chemical Veg Control

- ❓ Successful reforestation in moisture stressed environments requires vegetation control.
- ❓ Resprouting early successional species and invasives typically take over these sites without chemical intervention.
- ❓ Improves species diversity
- ❓ Without the use of herbicides, you need to have a lot of luck, perfect timing and an unlimited budget.

What's New

- Beewhere.calagpermits.org
 - “Bringing beekeepers and pesticide applicators together by tracking and safeguarding hive locations across California”
 - Can be used by Bee Keepers, bee brookers, grower/applicator and PCAs

- Water Boards
 - 30 Day Notification in many regions prior to application of herbicides
 - Several Regions have no spray WLPZ and no allowance for application to water even if using aquatic herbicide.
 - Central Valley WB requires a post fire management and reforestation plan

What's New

Water Board Spray buffers



DPR New Rule:

- **Restricted Materials Notification**
 - Public notification of intended application of restricted pesticides
 - 24 hr advanced notice of intent to County Ag Commissioner for approval
 - If approved must apply within 4 days of approval
 - New rule implementation 2024
 - In forestry applies to 2,4-D

Esplanade F-

Active Ingredient: Indaziflam Oral LD50: 2,000mg/kg

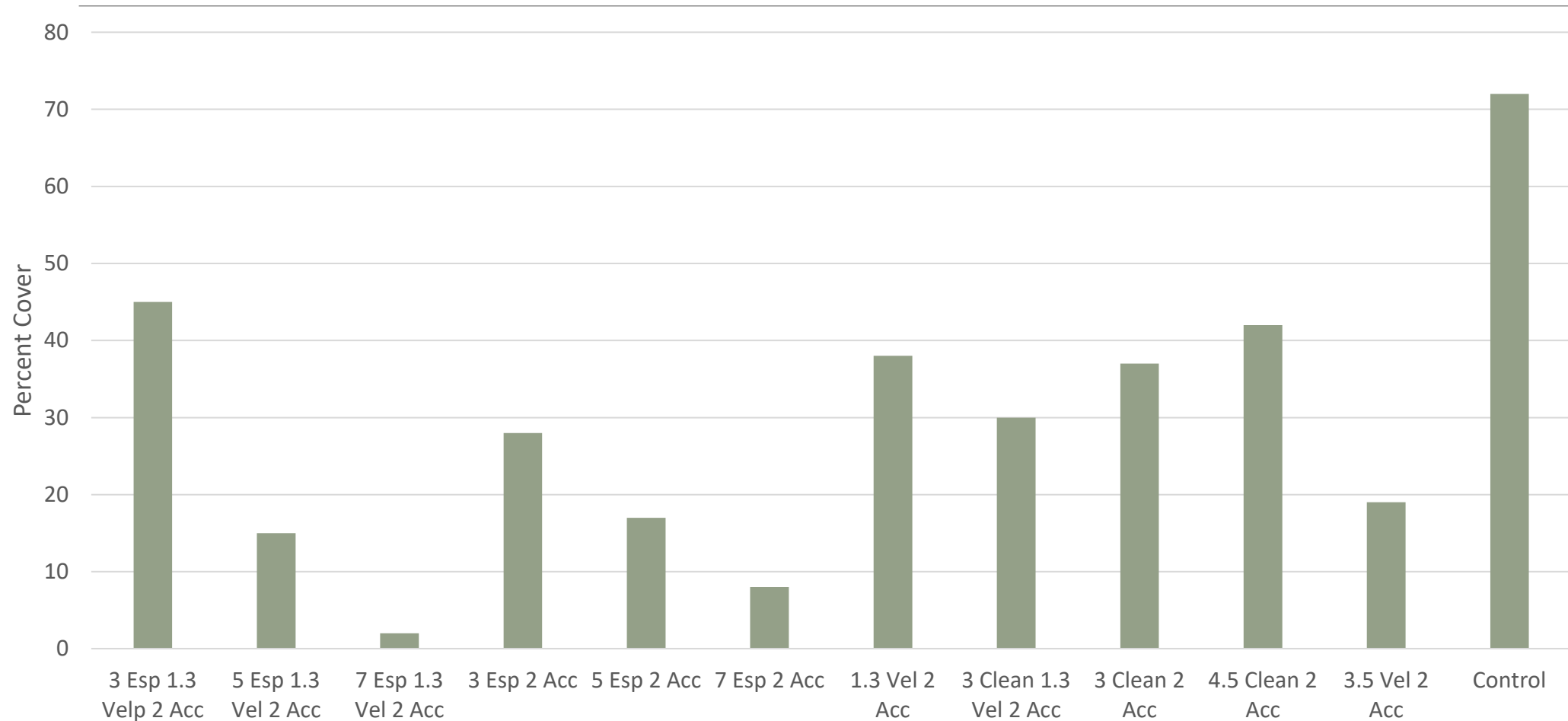
- Selective, preemergent, for control of grasses and broadleaf weeds in conifer and hardwood production areas. Great addition to site prep tank mixes.
- Esplanade F Herbicide controls weeds by reducing the emergence of seedlings through inhibition of cellulose biosynthesis.
- Necrosis or yellowing may also be observed if the herbicide is applied to herbaceous tissue such as leaves and green stems of susceptible plants.
- Esplanade F Herbicide has minimal post-emergent activity and generally does not control weeds that have emerged. Usually, tank mix with glyphosate
- Requires rainfall (minimum 0.25 inches) within several weeks after application to activate the herbicide. More rain the better.

Esplanade F-

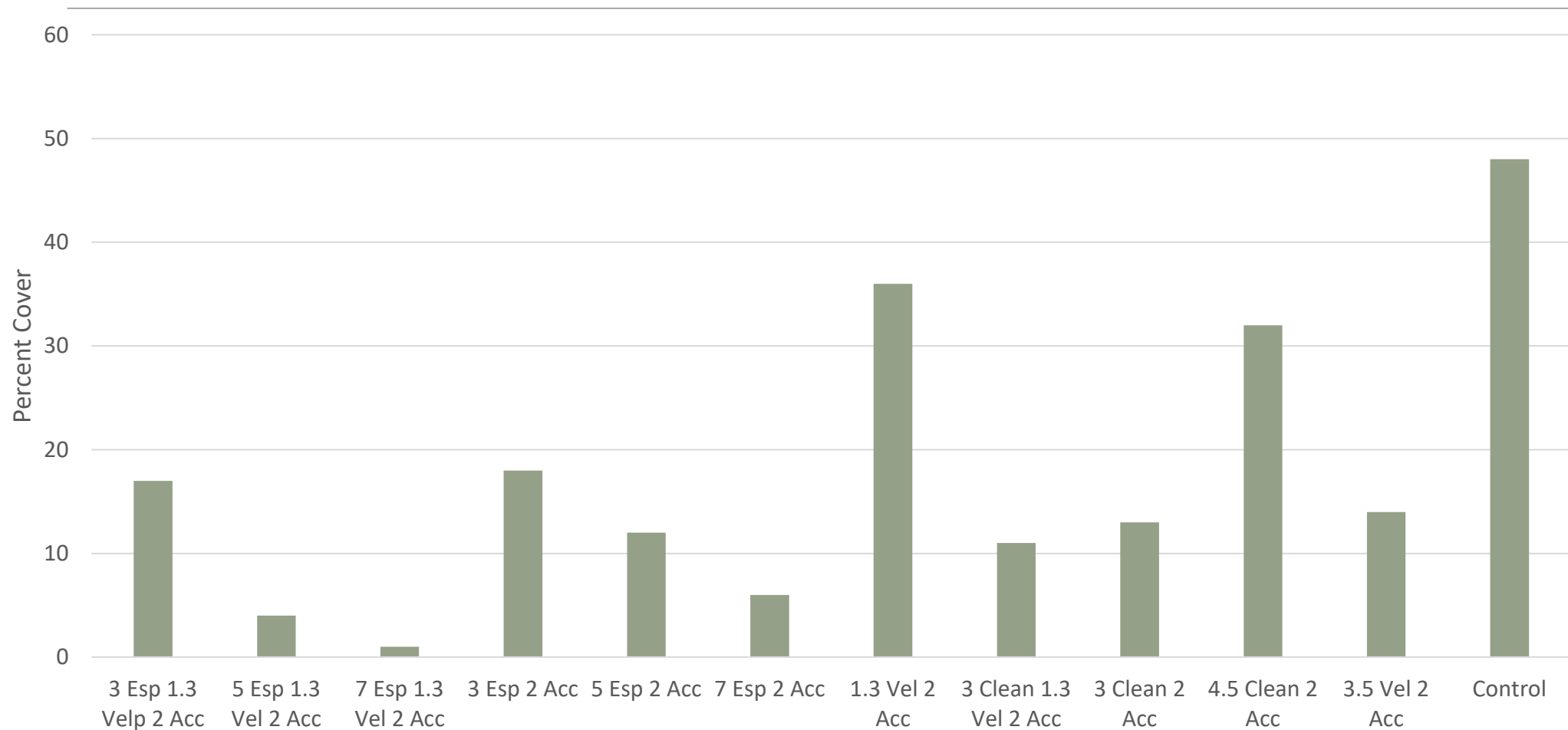
- Esplanade F Herbicide does not control tubers, rhizomes, and woody vegetation.
- Do not apply this product to frozen or snow covered soil.
- Do not contaminate water intended for irrigation and domestic use.
- Do not exceed 7 fl oz/A of Esplanade F Herbicide in a single application.- About \$66/ac
- Do not exceed 10 fl oz/A of Esplanade F Herbicide within a calendar year or in a 12-month period from the previous application.

East Side Site Prep Trial – 2 YAT

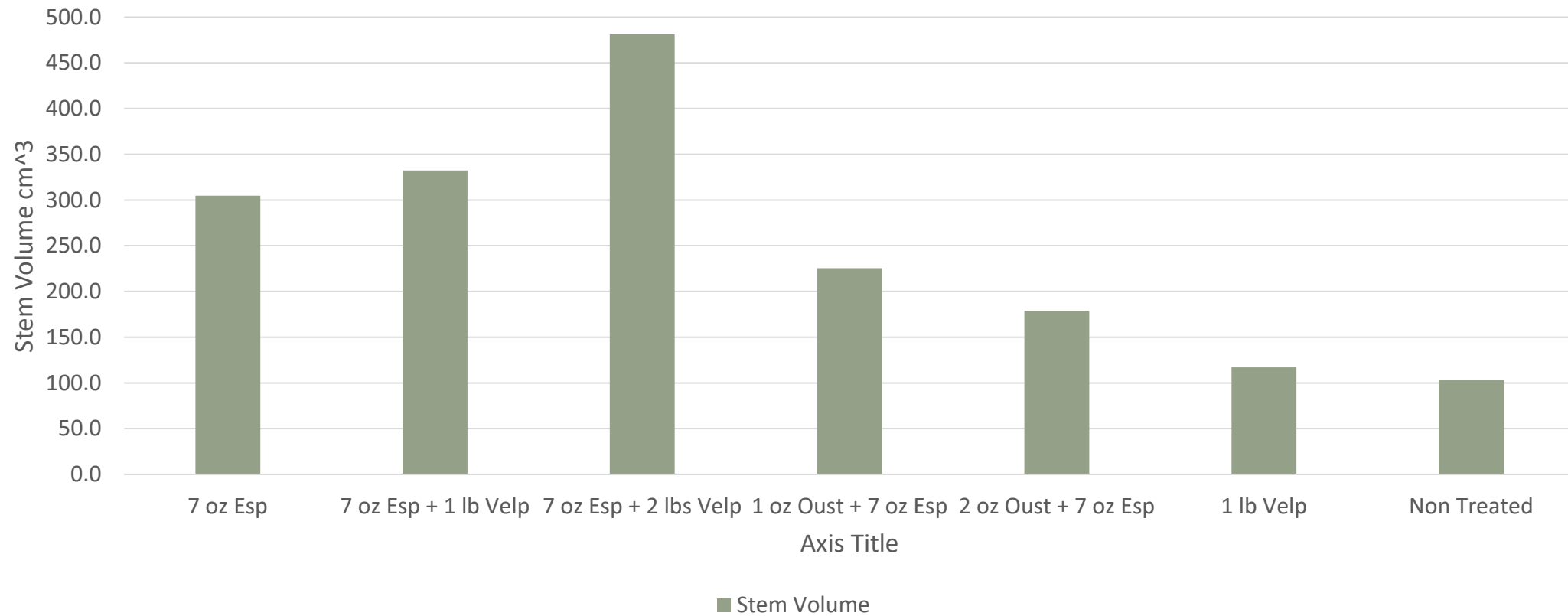
Percent Total Cover



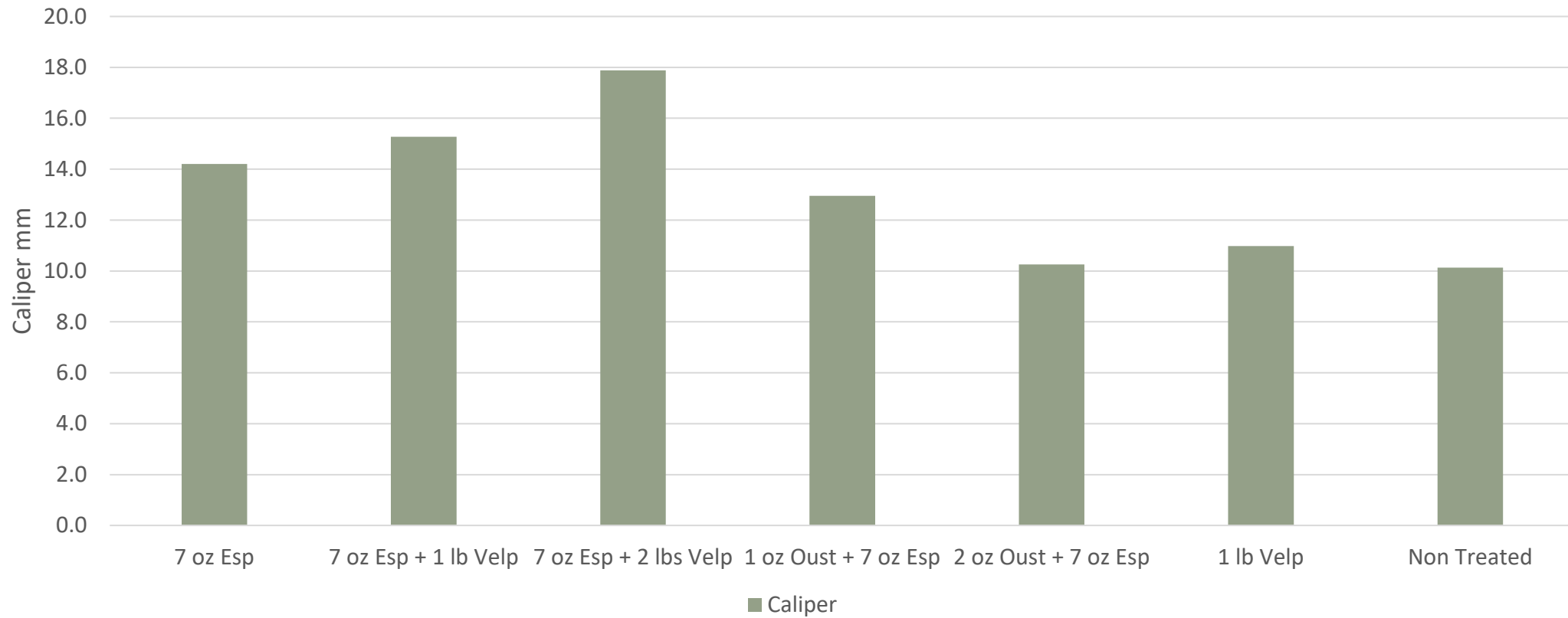
East Side Site Prep Trial – 2 YAT Percent Prickly Lettuce Cover



Redwood Stem Volume 2 YAT for Coast Fall Site Prep Trial

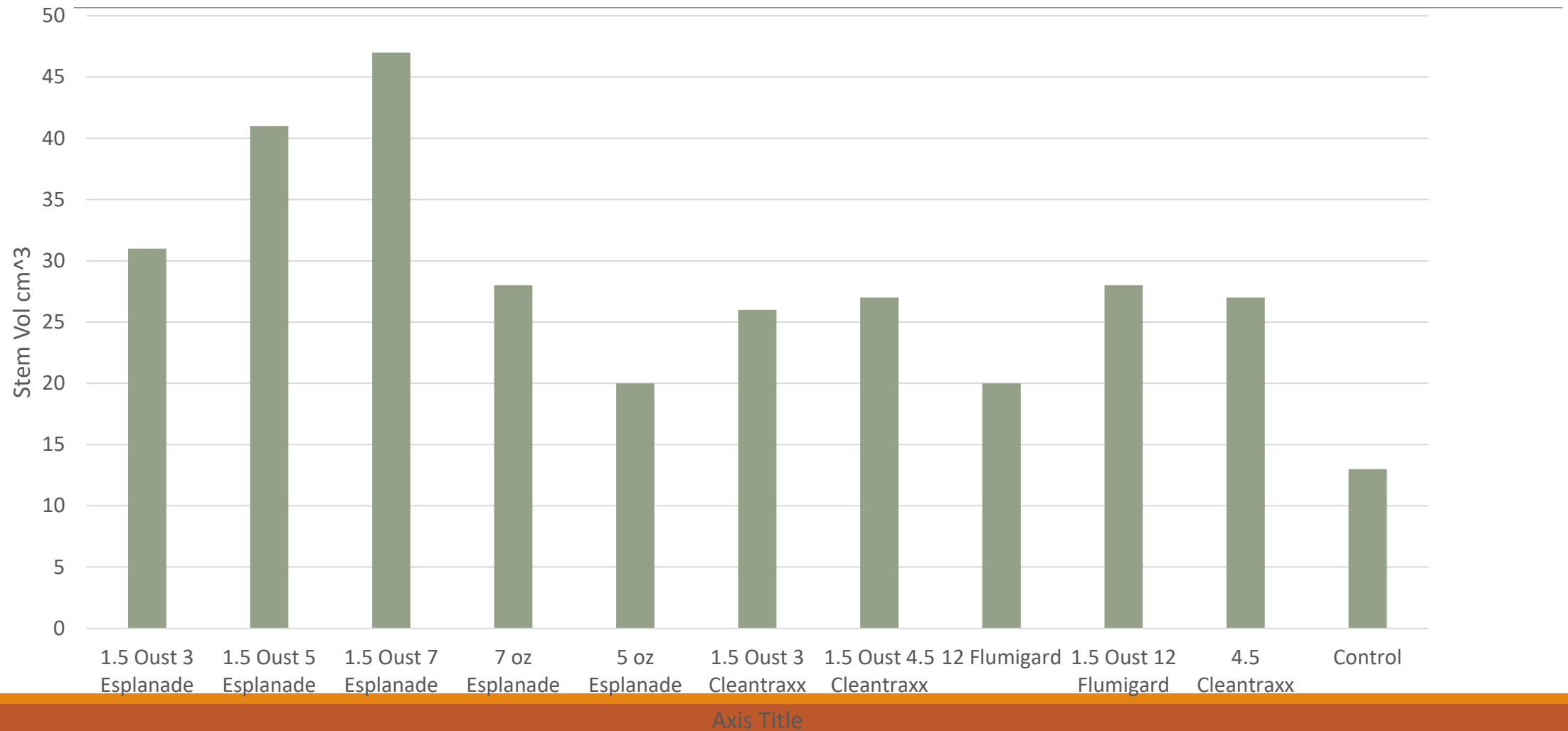


Redwood Caliper 2 YAT for Coast Fall Site Prep Trial



Doug fir stem volume 2 YAT

All Treatments Contain 1.5qts Accord, 20 oz Polaris SP and 4 oz Syltac



Vastlan

Active Ingredient: Triclopyr choline Oral LD50: 1,000mg/kg Warning Label

By Corteva

- Control of woody plants, annual and perennial broadleaf weeds on numerous sites (see label) including aquatic sites and wetlands
 - Do not spray un-impounded rivers or water to be used for irrigation within 120 days.
- Systemic herbicide that controls target weeds by mimicking the plant growth hormone auxin which causes uncontrolled and eradicate growth
- Non-Volatile
- Safe on grass
- No soil activity

Vastlan

Active Ingredient: Triclopyr choline Oral LD50: 1,000mg/kg Warning Label

By Corteva

- No restrictions to recreational water ways, including swimming and fishing
- Can be used as a site prep or a release treatment
- For site prep
 - Wait one month for planting if using 4 qts or less per acre.
 - Wait two months for planting if using 4-6 qts per acre.
- For release treatment
 - Use 3 to 6 quarts per acre per 100 gallons of spray mix with a non-ionic surfactant.
 - Best to use a flat fan nozzle or equivalent to ensure good coverage





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