



## Introduction



Wildwood Restoration Site, Big Tujunga Canyon, Angeles National Forest Los Angeles County, elev. 540 m

- ✓ <u>Goal</u>: Control spread *Ailanthus altissima* (AIAL).
- <u>Context</u>: 3-year restoration project -- native planting & weed control.
- Partners: Angeles National Forest & National Forest Foundation.
- Site: Recreation site, burned in 2009. Disturbed native plant communities. Creek hosts endangered Santa Ana Sucker fish.
- <u>Wildlife Protection</u>: limits on site activities per NEPA determination<sup>1</sup>.



Herbicide menu: YES - Aquatic labelled NO - Triclopyr-BEE\* (toxic to fish) (\*e.g. Pathfinder, Garlon 4)

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Methods		
Chemicals Used	<ul> <li>Triclopyr triethyl-amine (TEA) (Garlon 3A*)</li> <li>Imazapyr isopropylamine (Habitat*)</li> <li>Surfactant/penetrant blend (Liberate*)</li> </ul>	
Icon	<b>Application Technique<sup>2</sup></b>	Recipe
	Hack & squirt	50-100% herbicide
	Basal bark – thick mix	33% herbicide + 67% surfacta
*	Basal bark – thin mix	33% herbicide + 8% surfactan
	Foliar spray broadcast	3% herbicide + 0.3% surfactan
	Foliar spot spray	(Same recipe)
	Cut & daub	50-100% herbicide
•	Drill-stem injection	100% herbicide
Survey method	<ul> <li>before, during &amp; after treatment</li> <li>two 20x50-m plots; ten 1-meter subplots in each plot</li> <li>% cover for each plant species</li> <li>sampling method per Keeley et al (2005)<sup>3</sup></li> </ul>	

\* Product names are provided for information purposes only and are not meant to promote any product. (triclopyr butoxyethyl ester – BEE)

## **Controlling** Ailanthus altissima in sensitive fish habitat Rachel Wing, Andrew Castro, Naomi Fraga, Billy Sale, Kristy Snyder and Alejandra Soto



1) USDA Forest Service. September 2015. Environmental Assessment Angeles National Forest and San Gabriel Mountains National Monument Plan for Invasive Plants. https://www.fs.usda.gov/nfs/11558/www/nepa/101139\_FSPLT3\_2571091.pdf

2) DiTomaso et al. 2013 Weed Control in Natural Areas in the Western United States Weed Research and Information Center, Univ. of Calif. 544 pgs. 3) Jon E. Keeley, Anne H. Pfaff and Hugh D. Safford, Fire suppression impacts on postfire recovery of Sierra Nevada chaparral shrublands, International Journal of Wildland Fire, 2005, 14, 255-265.

