

TREECULTURE

Area Resources Management

We deal with the underlying conditions that allow for catastrophic wildfire

CAPABILITIES STATEMENT

Providing an innovative solution for wildfire hazard reduction and wildlife habitat conservation, using Silviculture

The problem: Imminent danger of catastrophic wildfire in and near built-up areas of high value property and strategic assets.

Cause: The woods' structure contains dry kindling stacked from the floor to the crown.

TreeCulture solution: Sculpt the woods to create a balanced live-woods formation, removing most of the dead material from the canopy and using it in place, to form a compact forest floor.

Why it works: Stacked kindling is collapsed so that flame height is reduced, fire and spark speed slowed, access and visibility improved, leaving root structures undamaged, thus retaining soil and nursing new growth.

Why it's the lowest cost solution: No offsite hauling, no chemical application, no heavy equipment.

Long-term maintenance plan: Annual maintenance includes herd grazing with herd-tenders who also tend the forest trees while driving a herd, in a prescribed under-grazing regimen.

Risk and Cost: The fire-risk goes way down immediately, and with long-term maintenance diminishes further. The cost starts low and diminishes to nearly nothing as herd and forest productivity is realized.

Force Protection: Reduces opacity in the open spaces near strategic assets.

Moshe Krafchow, Founder and Sole Proprietor

The concept for what is now TreeCulture, emerged from field research that Krafchow conducted in 2006-2007, while a graduate student at Humboldt State University, School of Environmental Systems. Developmental work continued for 8 years and in 2016, was registered as a San Diego Sole proprietorship, Doing Business as TreeCulture.

Krafchow served 8 years in the Navy, was a graduate of the Naval Nuclear Power School, and served as Reactor Operator on a submarine (SSN-705, USS City of Corpus Christi) in Connecticut and Guam. He earned a BS in Applied Science and Technology, with a major in Nuclear Engineering Technology, from Thomas Edison State College in 2006. He has more than 10 years' experience in Quality, Safety and Environmental Management.



Veteran Owned Small Business

DUNS: 080228809, CAGE: 7LWN1

NAICS

561730 - Landscaping Services

712190 - Nature Parks and Other Similar Institutions

115310 - Support Activities for Forestry

113210 - Forest Nurseries and Gathering of Forest Products

Product & Service Codes

F003 - Natural

Resources/Conservation- Forest-Range Fire Suppression/ Pre-suppression

F004 - Natural

Resources/Conservation- Forest/Range Fire Rehabilitation (Non-Construction)

F005 - Natural

Resources/Conservation- Forest Tree Planting

S208 - Housekeeping-

Landscaping/Groundskeeping

Liability Insurance

\$1 million

Contact

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Silviculture Project Example

Before



After



Current Projects:

1. Ongoing Demonstration in South Park, San Diego

- Initiated in June of 2010, this ongoing project is a ½ acre demonstration site for a residential property located in a very high fire hazard severity zone. Site visits are welcome, by appointment.
- Contact: Chris Pearson. (619) 889-9257, chrispearson11@hotmail.com

2. Tijuana River Valley Regional Park Demonstration Site - completed January 2019

- Initiated in January of 2017, this is a 2 acre demonstration site with a two year permit issued by San Diego County Department of Parks and Recreation.
- Contact: Mike Verderber, Supervising Park Ranger. (619) 428-2946, mike.verderber@sdcounty.ca.gov

Pricing

- a. Initial work: \$2,000 -\$10,000/acre or \$1.2M-\$6.4M/square mile, depending on the density and topography.
- b. One-time, 6-month maintenance event: \$500/acre or \$320,000/square mile
- c. Annual maintenance plan: approximately \$500/acre per year or \$320,000/square mile per year. Price may vary depending on density and topography. Annual maintenance will include a managed grazing plan (deliberate under-grazing).
- d. The long-term maintenance cost for large contiguous areas will go down over time because of easier maintenance of a healthier forest and profit derived from forest product, mainly grazing. We would like to set a goal of being self-sustainable and cost-free within a decade.

Recommended Priority Areas

Open spaces near housing and facilities of **strategic** importance. We recommend a minimum 400' band starting outside of the standard 100' foot of defensible space for structures.

An affordable and sustainable forest management program is the best way to reduce the risk of catastrophic wildfires.