# Fuels Management Strategies for Woody natives to Avoid Promoting Invasives

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Great Basin Study Sites for the Changing Fire Regimes Study Funded by the Joint Fire Sciences Program

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Comparisons of Community Types Sampled, and Comparison of Relative Abundance of Pre-Settlement (age oldest tree > 140 yrs.) and Post-Settlement (age of oldest tree < 140 yrs.) plots for the Changing Fire Regimes Study in Nevada and Utah.

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### Patterns of Tree Density Increases over time for Three Study Sites for the

#### **Changing Fire Regimes Study.**



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### Rates of Tree establishment by decade for three sites



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### Pattern of Understory Decline Over Time With the Increase in Pinyon/Juniper Dominance



Leaf Bio. Weighted Avg. Age of Pinyon





Upper Underdown Canyon, Shoshone Mountains, Nevada, June 1973



Upper Underdown Canyon, Shoshone Mountains, Nevada, June 2007

## Distribution of the Study Plots Between Low, Mid, and High Tree Dominance for the Changing Fire Regimes Study

Sweetwater Mtns., CA









Underdown Canyon, Shoshone Mountains, NV Pre-Treatment Data (40 Plots of 0.10 ha)

Pattern of Increase in One-Hour Live Fuels With Increasing Relative Tree Dominance in the Underdown Canyon Demonstraton Area, Shoshone Mountains, NV





# **Juniper Burning**







Cathedral Burn, White Pine Range, NV, Mid-July 2007. Picture Sep. 2007



Cathedral Burn, White Pine Range, Nevada, Mid-June, 2008 (Burned Mid-July 2007)

Cheatgrass and Tumble Mustard Dominance of a Phase III, Totally Tree Dominated Site Four Years After Wildfire



Expansion Woodlands on the East Side of Mount Como, Pine Nut Mountains, Nevada

Pattern of Increase in One-Hour Live Fuels With Increasing Relative Tree Dominance in the Underdown Canyon Demonstraton Area, Shoshone Mountains, NV





Underdown Canyon Demonstration Area Fuels





