



Hazardous Fuels Reduction and Forest Restoration Activities

The Lake Tahoe Basin Management Unit

Presentation to the Lake Tahoe
Federal Advisory Committee



March 29, 2007

Tahoe's "natural" forest - 1880's



Today's Tahoe forest





Fallen Leaf Lake 1873



Fallen Leaf Lake 1992 (119 yrs. Later)



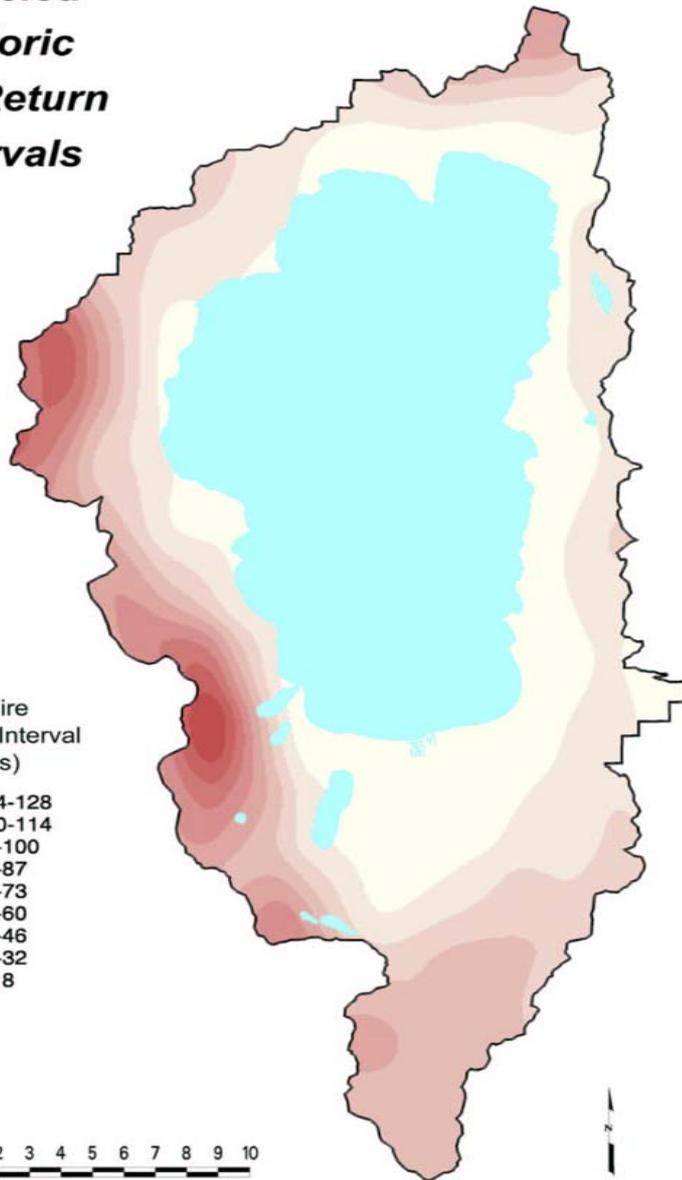
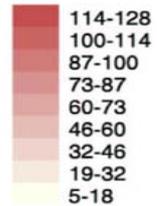
Slaughterhouse Canyon 1873



Slaughterhouse Canyon 1993
(120 yrs. Later)

**Modeled
Historic
Fire Return
Intervals**

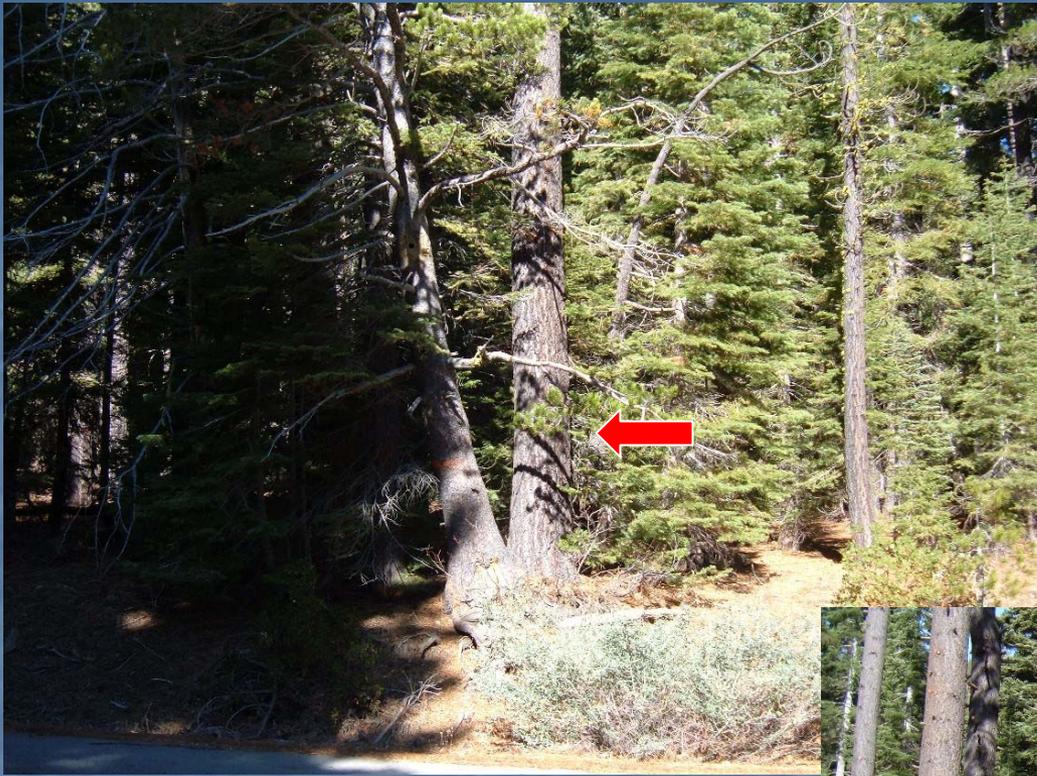
Mean Fire
Return Interval
(in years)



Historic Fire Return Intervals

Blackwood Canyon Quail Project

After Treatment



Before Treatment



Ward Project



Before Treatment

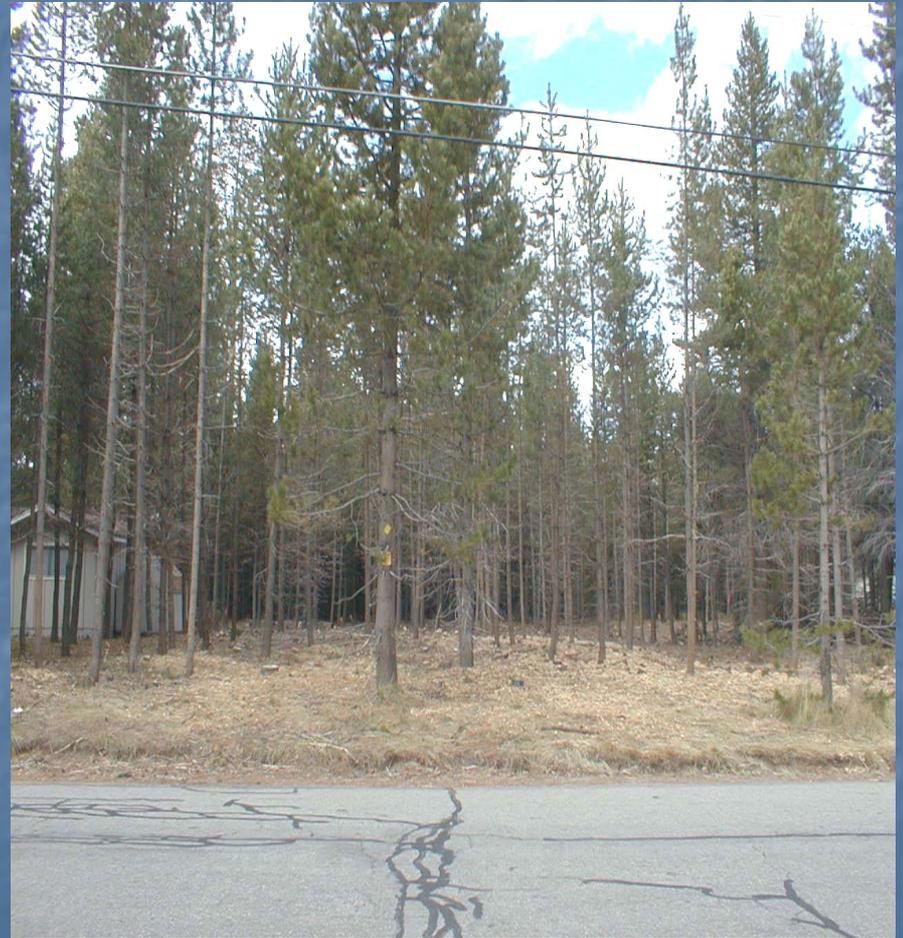
After Treatment



Hand Thinning Treatment Urban Lots

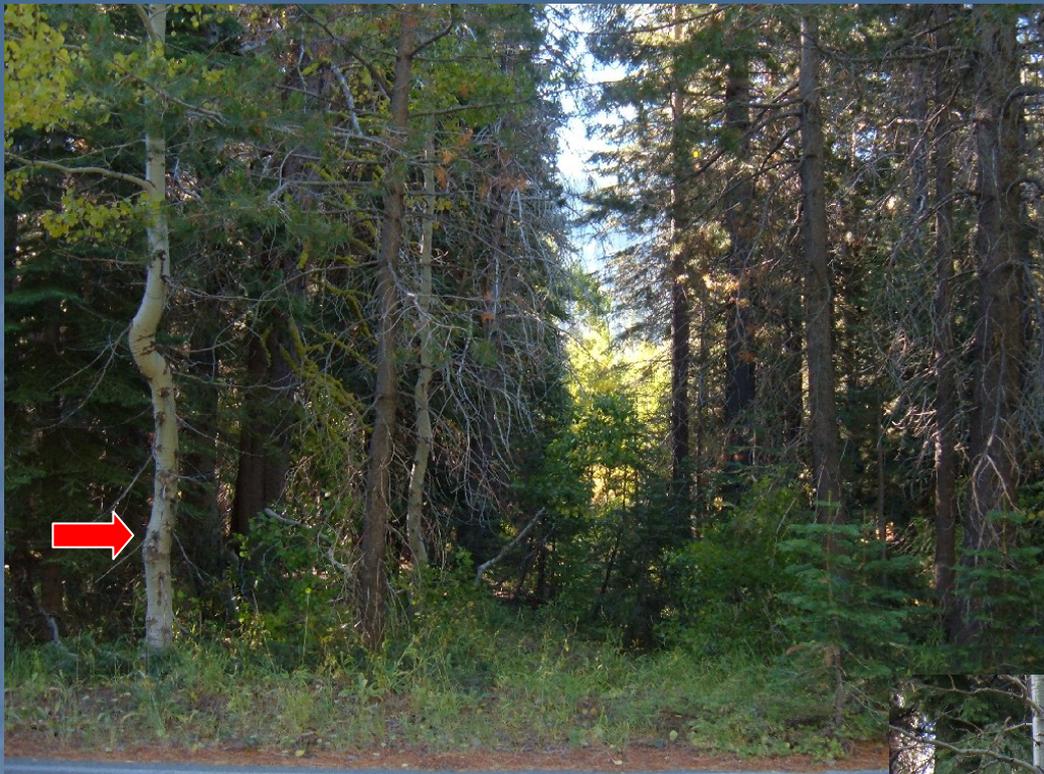


Before



After

Aspen Restoration Treatments



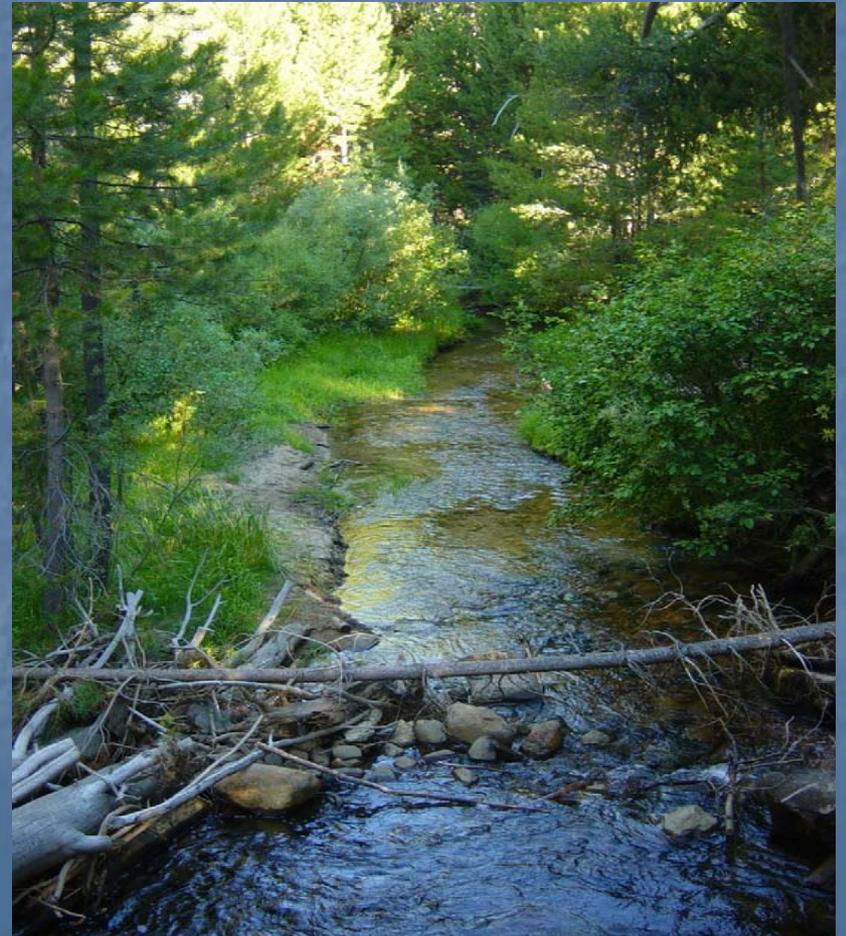
Before

After



SEZ Treatments

Desired Condition



Today's Condition

Hidden Woods Project – Hand Thin, Pile, and Burn



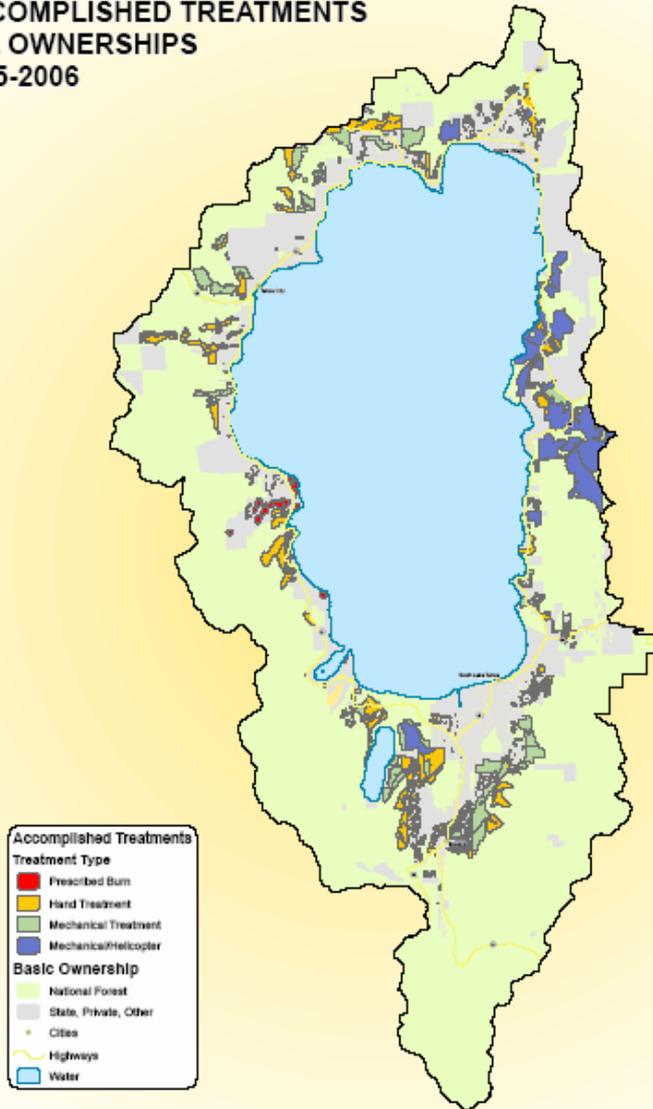
Stewardship Fireshed Assessment

Areas Treated

1995 - 2006

12,570 National Forest Acres Treated

LTCMU STEWARDSHIP AND FIRESHED ASSESSMENT
ACCOMPLISHED TREATMENTS
ALL OWNERSHIPS
1995-2006



Map #1

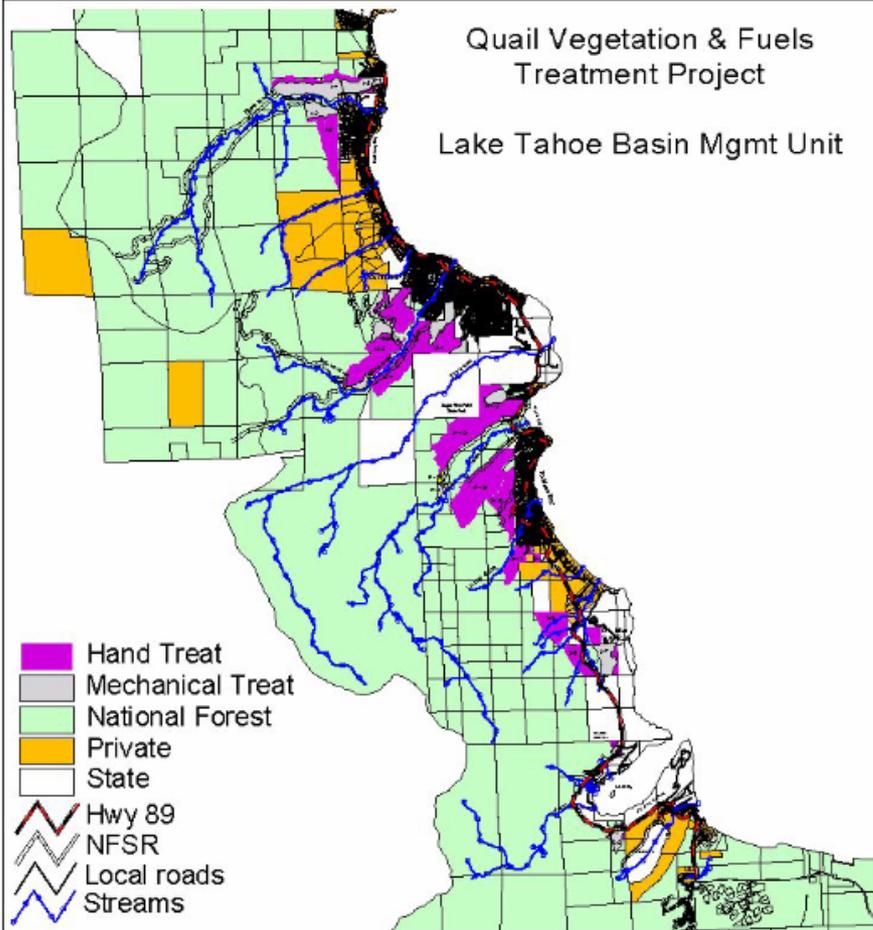
Hazardous Fuels Reduction Program Elements

- Mechanical treatment of fuels and vegetation on slopes $<30\%$ using mechanical harvesters and removal or mastication of biomass.
- Hand thinning and piling of fuels and vegetation on slopes $>30\%$, followed with burning of piles. Biomass removal as access allows.
- Prescribed understory burning to reintroduce fire to the ecosystem.

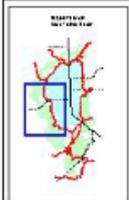
Current Projects

Quail Project

Quail Vegetation & Fuels
Treatment Project
Lake Tahoe Basin Mgmt Unit



- Planning Area – 5,700 acres
- Treatment Acres – 2,704 acres
- All WUI Acres
- Hand Thinning, Pile & Burning
2,105 acres
70% complete
remainder in 2007
- Pile Burning to begin in 2007
- Mechanical Thinning & Chipping
599 acres
33% complete
remainder 2007-09



1 0 1 2 3 Miles

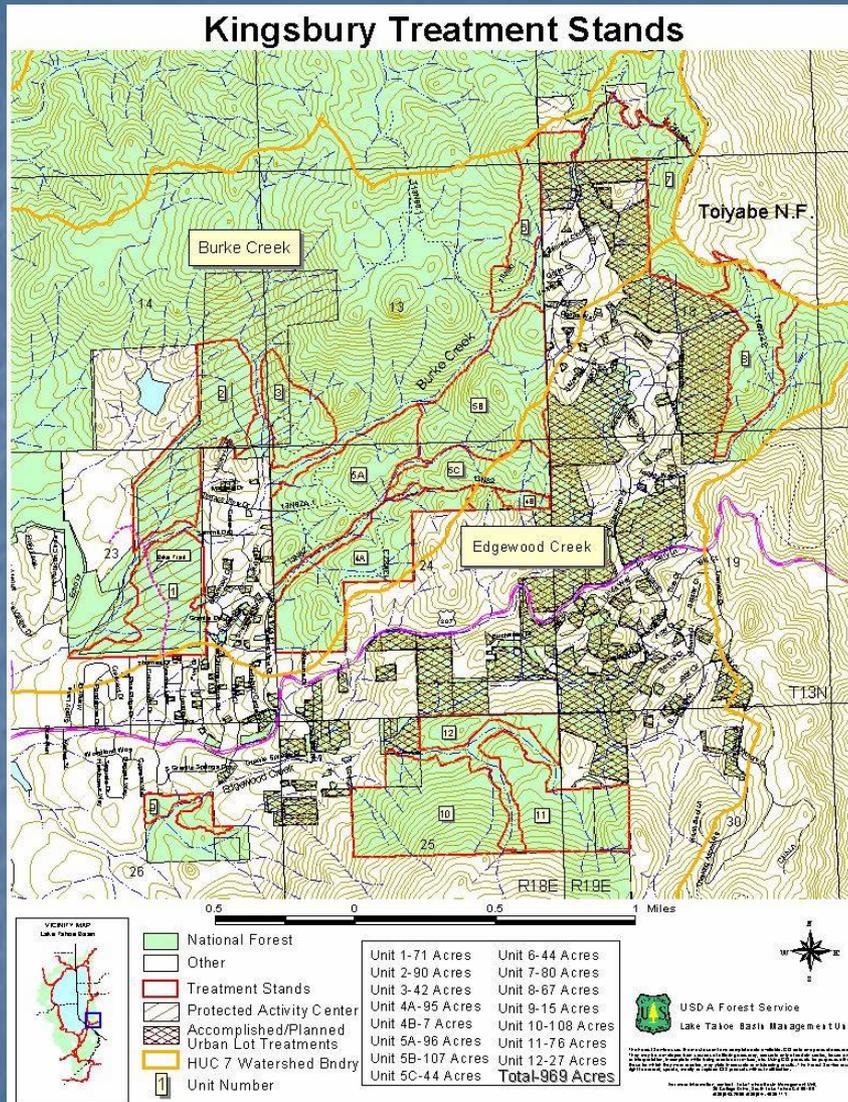


USDA Forest Service
Lake Tahoe Basin Management Unit

Map prepared by the Lake Tahoe Basin Management Unit, USDA Forest Service, in cooperation with the Nevada Department of Forestry, Nevada State Parks, and the California Department of Forestry and Fire Protection. The map is for informational purposes only and does not constitute a contract or warranty of any kind. The map is not to be used for any other purpose without the express written consent of the Lake Tahoe Basin Management Unit. The map is not to be used for any other purpose without the express written consent of the Lake Tahoe Basin Management Unit.

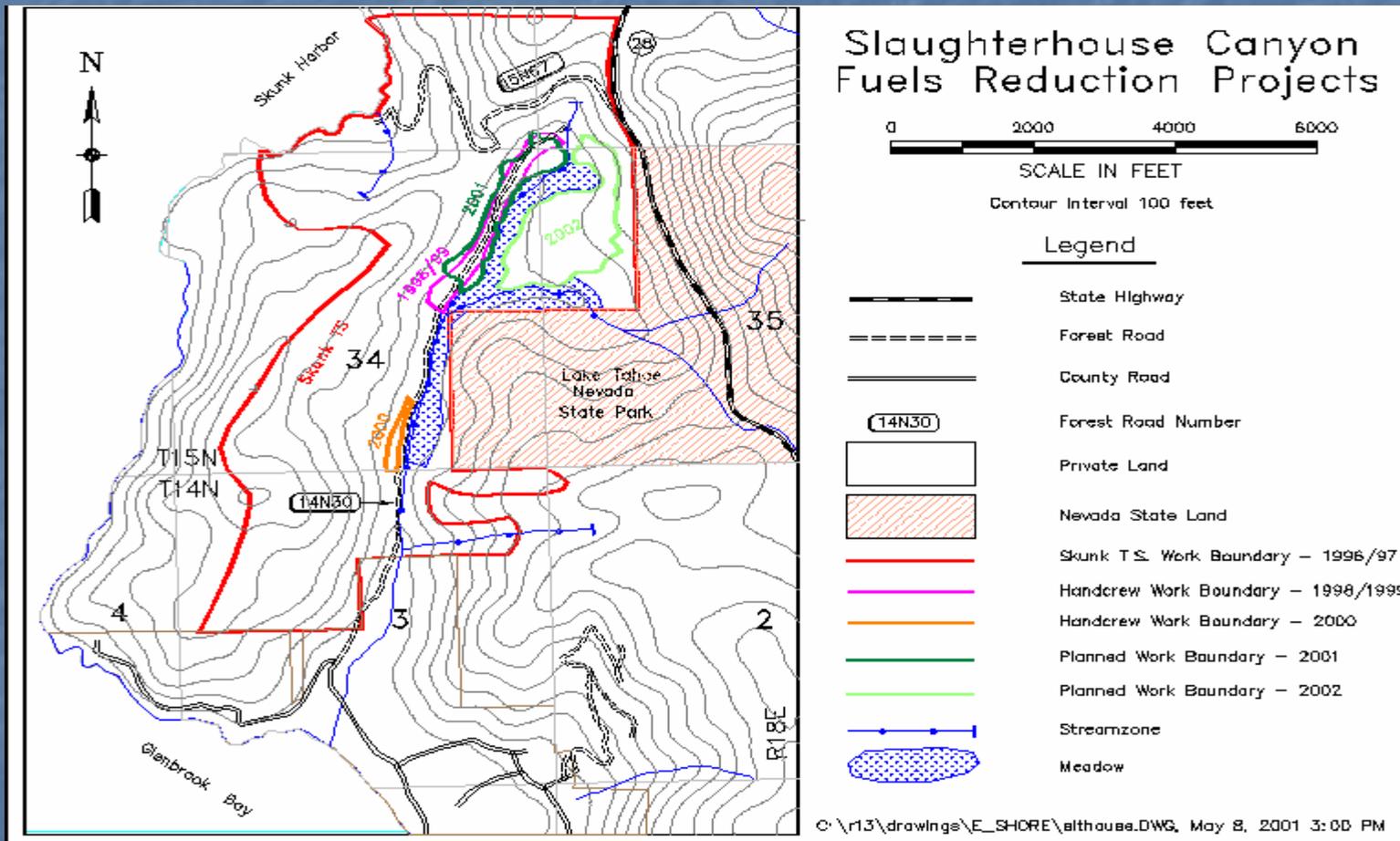
Current Projects

Kingsbury & Urban Lots Hand Thinning Project



- Planning Area – 1,800 acres
- Treatment Area - 1,500 acres of hand thinning, piling and burning
- WUI and Urban Intermix lands
- Compliments Chimney Rock Chapter NVFSC Project and other planned Fire Safe Council Chapter projects
- 50% of hand thinning complete, remainder to be completed Summer 2007
- Pile burning to start Fall 2007

Slaughterhouse Canyon Fuels Reduction Project



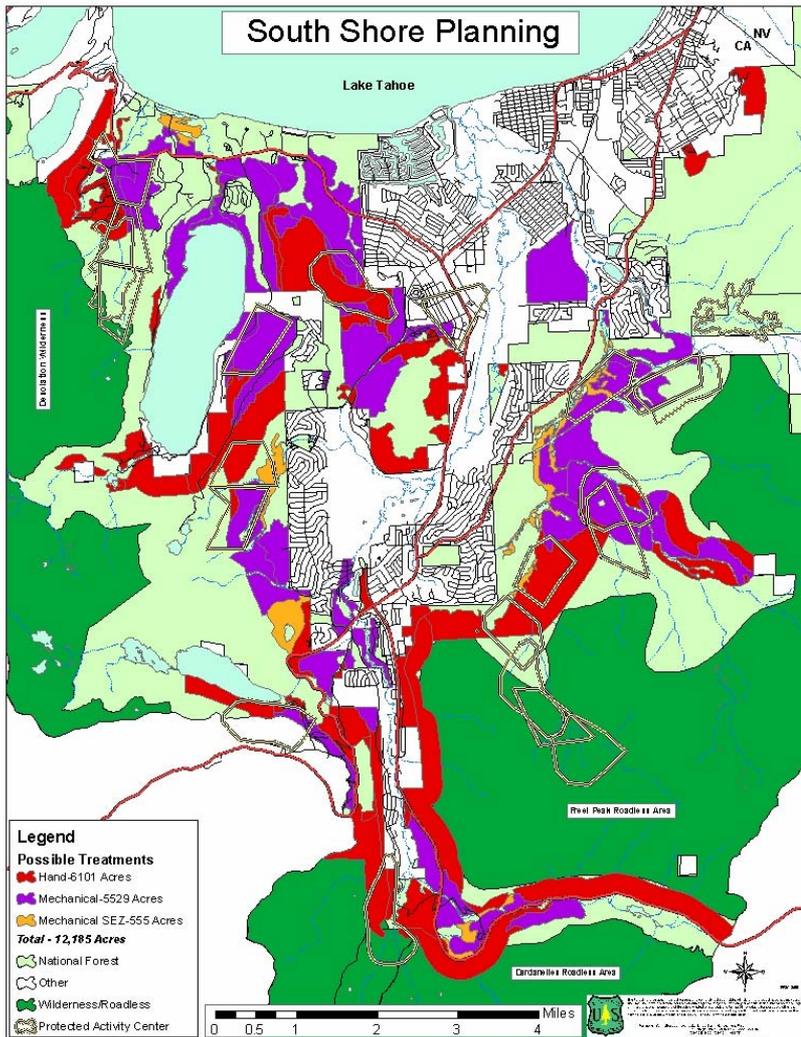
Slaughterhouse Canyon Fuels Reduction Project (cont.)

- Approximately 500 acres
- Access via restored Railroad grade off Hwy 28
- Access will give Tahoe Resource Team/State Parks access to State lands needing treatment
- Hand thinning and pile burning partially completed around head of Prey Meadow
- Additional hand thinning work planned for 2007
- Mechanical work will begin after railroad grade is restored
- Permit application submitted to TRPA for restoration activities

Project Planning

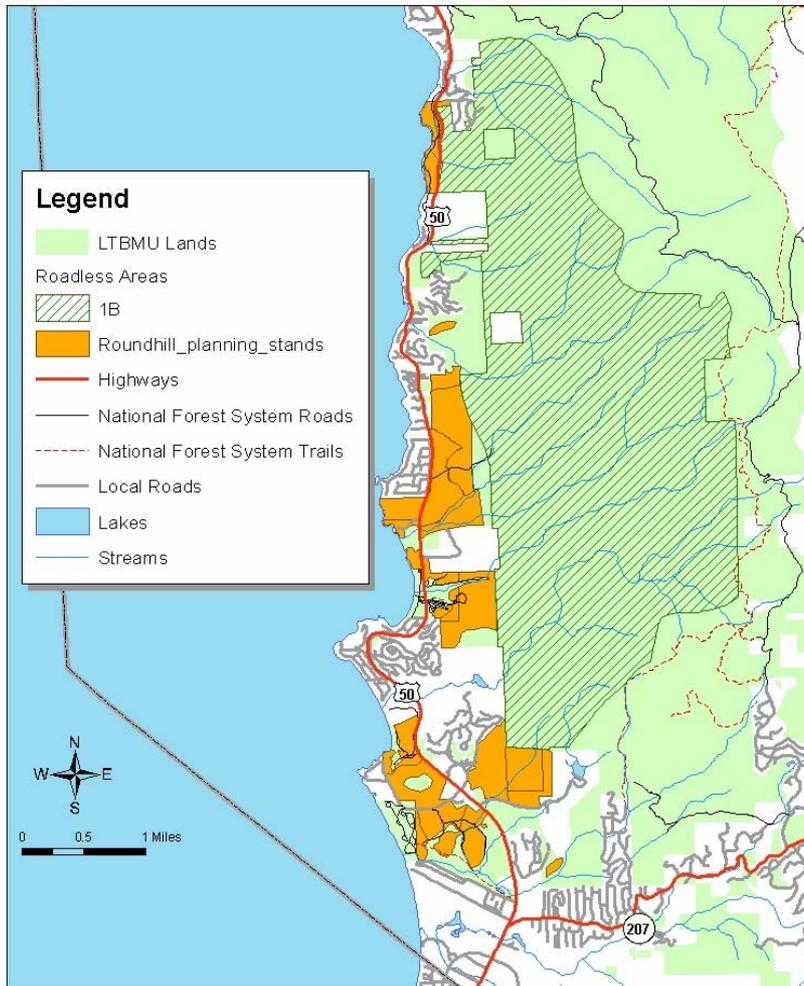
South Shore Planning

- 40,000 acre analysis area
- Approx. 12,500 acres of planned treatment
- All treatments in the WUI
- NEPA decision planned for Spring 2008
- Implementation late summer 2008



Project Planning

Roundhill Fuels Reduction Project



Roundhill Project

- 3,800 acre analysis area
- Approx. 985 ac. of mechanical and hand thinning/pile and burn
- Biomass utilization opportunities
- Implementation 2007

**LTCMU STEWARDSHIP AND FIRESHED ASSESSMENT
PLANNED USFS TREATMENTS**



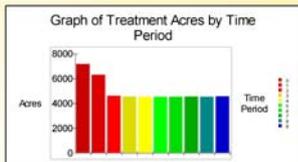
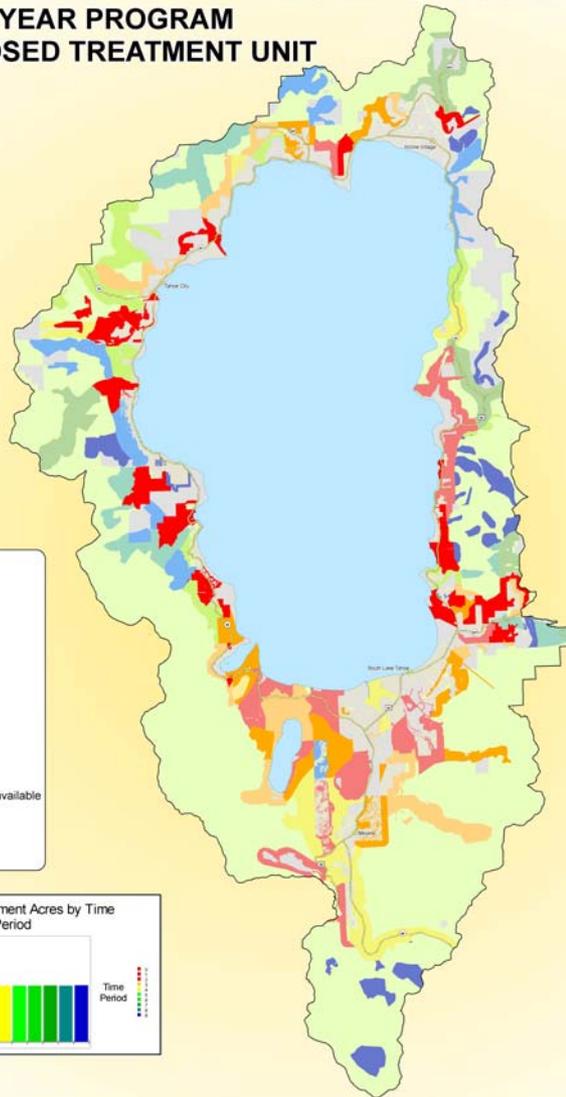
Map #2

Stewardship Fireshed Assessment

Planned Treatment Areas

2007-2016

**LTCMU STEWARDSHIP AND FIRESHED ASSESSMENT
DRAFT 10-YEAR PROGRAM
BY PROPOSED TREATMENT UNIT**



0 1.5 3 6 9 12 Miles
1:70,000

Stewardship Fireshed Assessment

Planned Treatment Areas

2007-2016

By Treatment Year

Community Fire Plan Treatment Acreage Breakdown

Project Ownership Summary					
Fire District	Federal	State	Local	Private	Total
Fallen Leaf	160	2	1	326	489
Lake Valley	1,546	757	49	289	2,641
Meeks Bay	88	219	7	189	503
North Tahoe	566	1107	124	685	2482
City of SLT	289	207	126	211	833
California Total	2,649	2,292	307	1,700	6,948
Tahoe-Douglas	2,823	65	252	502	3,642
North Lake Tahoe	1,080	10	592	206	1,888
Nevada Total	3,903	75	844	708	5,530
Tahoe Basin Total	6,552	2,367	1,151	2,408	12,478

Lake Tahoe Basin Management Unit - Seasonal Work Restrictions (LOP)

		Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec		
TRPA Grading Ord.	10/15-5/1	Red	Red	Red	Red	Red						Red	Red	Red	Red
Northern Goshawk	2/15-9/15			Yellow											
Ca. Spotted Owl	3/1-8/31			Green											
Bald Eagle (Winter)	10/15-3/15	Red	Red	Red	Red							Red	Red	Red	Red
Bald Eagle (Nesting)	3/1-8/31			Yellow											
Osprey	3/1-8/15			Green											
Great Grey Owl (PAC)	3/1-8/15			Red											
Willow Flycatcher	6/1-7/31						Yellow	Yellow	Yellow						
Waterfowl	3/1-6/30			Green	Green	Green	Green	Green							
Peregrine Falcon	4/1-7/30				Red	Red	Red	Red	Red	Red					
Martin (Den Sites)	3/1-7/31			Yellow	Yellow	Yellow	Yellow	Yellow	Yellow						
Fisher (Den Sites)	3/1-6/30			Green	Green	Green	Green	Green							

How is Work Accomplished?



Mechanical Treatments





How is Work Accomplished?



Hand Thinning

How is Work Accomplished?



Burning Slash Piles



How is Work Accomplished?



Prescribed Fire



How is Work Accomplished? (Proposed)



Feller Buncher

How is Work Accomplished? (Proposed)



Whole Tree Harvesting

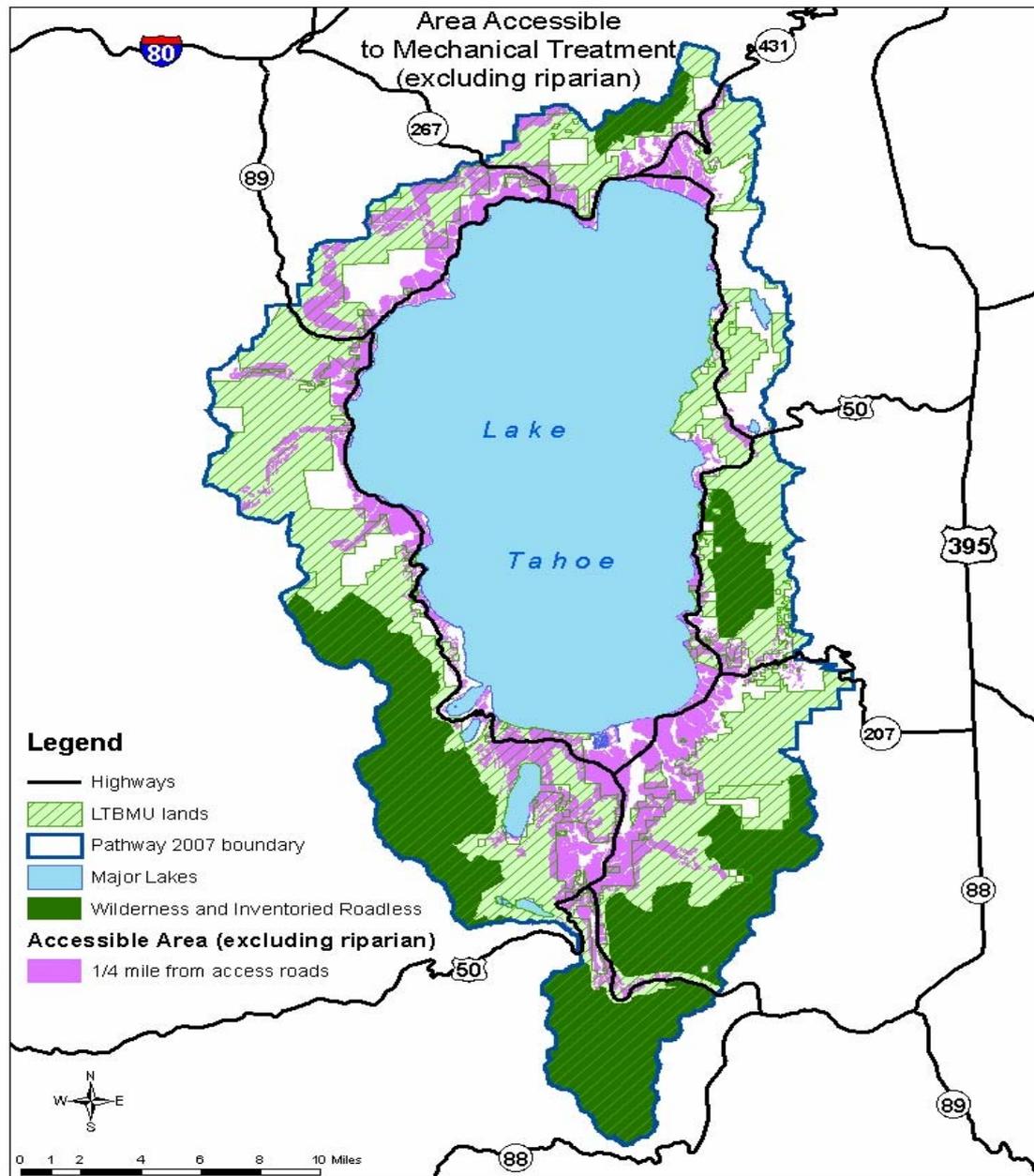
Biomass



Lake Tahoe Basin Biomass Study

Potential Biomass Availability

Agency	Green Tons
Forest Service	22,076
Nevada	265
California	1,894
Private	1,222
Total	25,457



Western Nevada Biomass Availability

Nevada Fire Safe Council Study - 50 Mile Radius around Carson City

Agency	Available Green Tons	Gross Green Ton Potential
Forest Service (ENF, TNF, LTBMU, H-T)	49,311	103,141
BLM	42	115
Other Public	5,031	12,253
Private	223,841	468,336
Total	278,255	583,845

Source – McNeil Technologies, Inc. Report – 6/8/04

Biomass

- Forest Service Willing to Make It Available
- Perception of Large Supply
- Limited Availability
 - Mechanical acres only
 - Close to roads
 - Gentler Slopes (<30%)
 - Limited Season to Acquire
- High Cost to Remove
- Reduce Costs by Changing Methods of Removal
- Does Not Replace the Need to Pile Burn

Biomass Processing



SNPLMA Funding to Date

- Round 5 - \$2,575,000
- Round 6 - \$10,002,000
- Round 7 - \$10,150,000
- Round 8 - \$10,000,000 (Proposed)
- White Pine Bill Planning - \$250,000

Assistance to Local Fuels Reduction Work Fiscal Year 2006

\$956,960

- Nevada Fire Safe Council - \$153,700
 - Chimney Rock Chapter - \$100,000
 - Round Hill Chapter – \$53,700
- Tahoe Douglas FPD - \$77,000
- Lake Valley FPD - \$47,430
- Meeks Bay FPD - \$32,130
- North Tahoe FPD - \$493,000 (Appropriation Earmark)

White Pine County Lands Bill

Creation of a Fuels Reduction Plan

- Multi-jurisdictional
- Comprehensive
- Cost effective
- TRPA coordination
- Public input
- Sustainable Biomass
- Coordination with Washoe, Carson City, & Douglas County Plan

Questions?

