



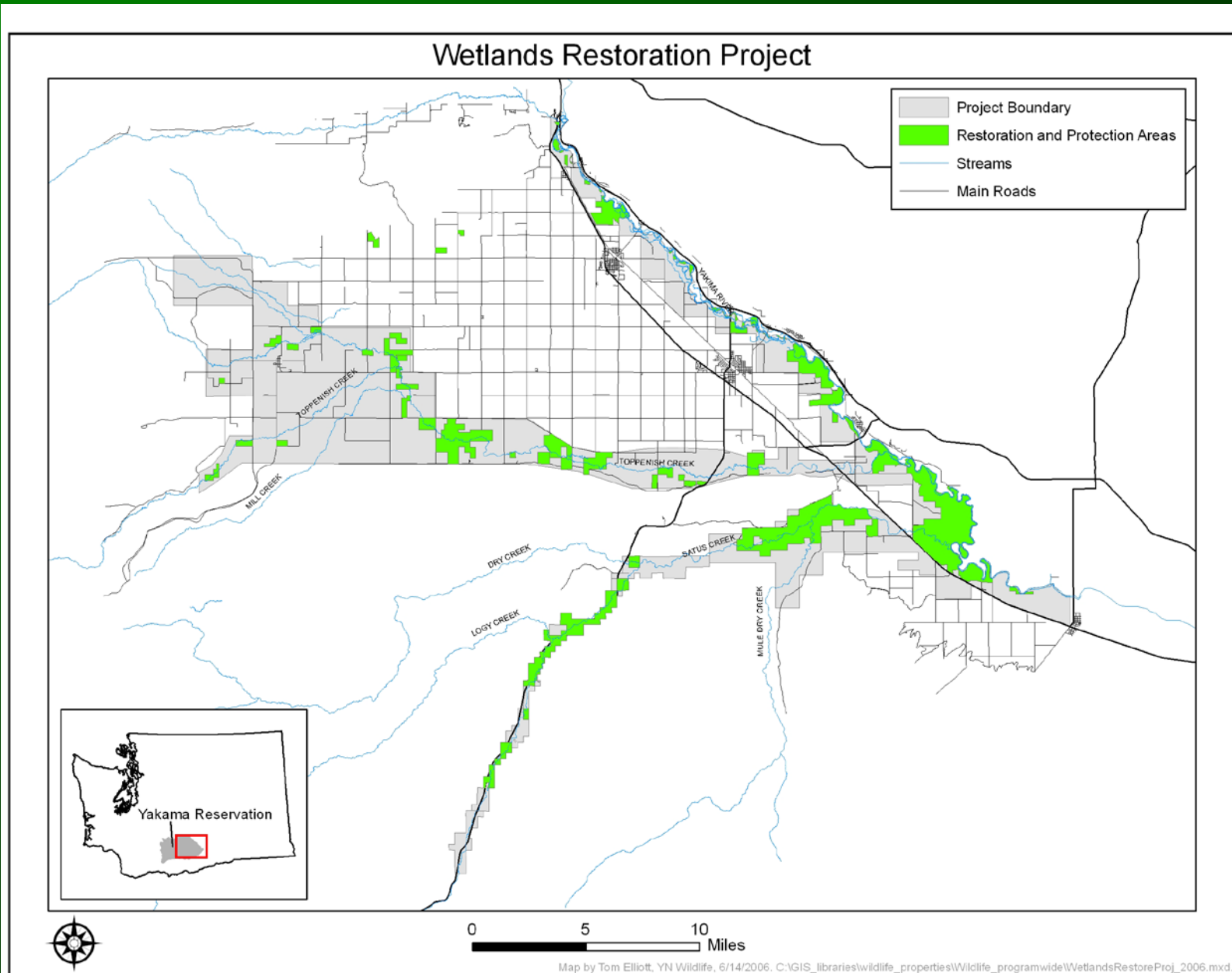
# **Converting Idle Farmland to Floodplain Habitats**

**Yakima Valley Riparian/Wetlands Restoration Project**

**Katrina Strathmann  
Yakama Nation Wildlife Resource Management Program**

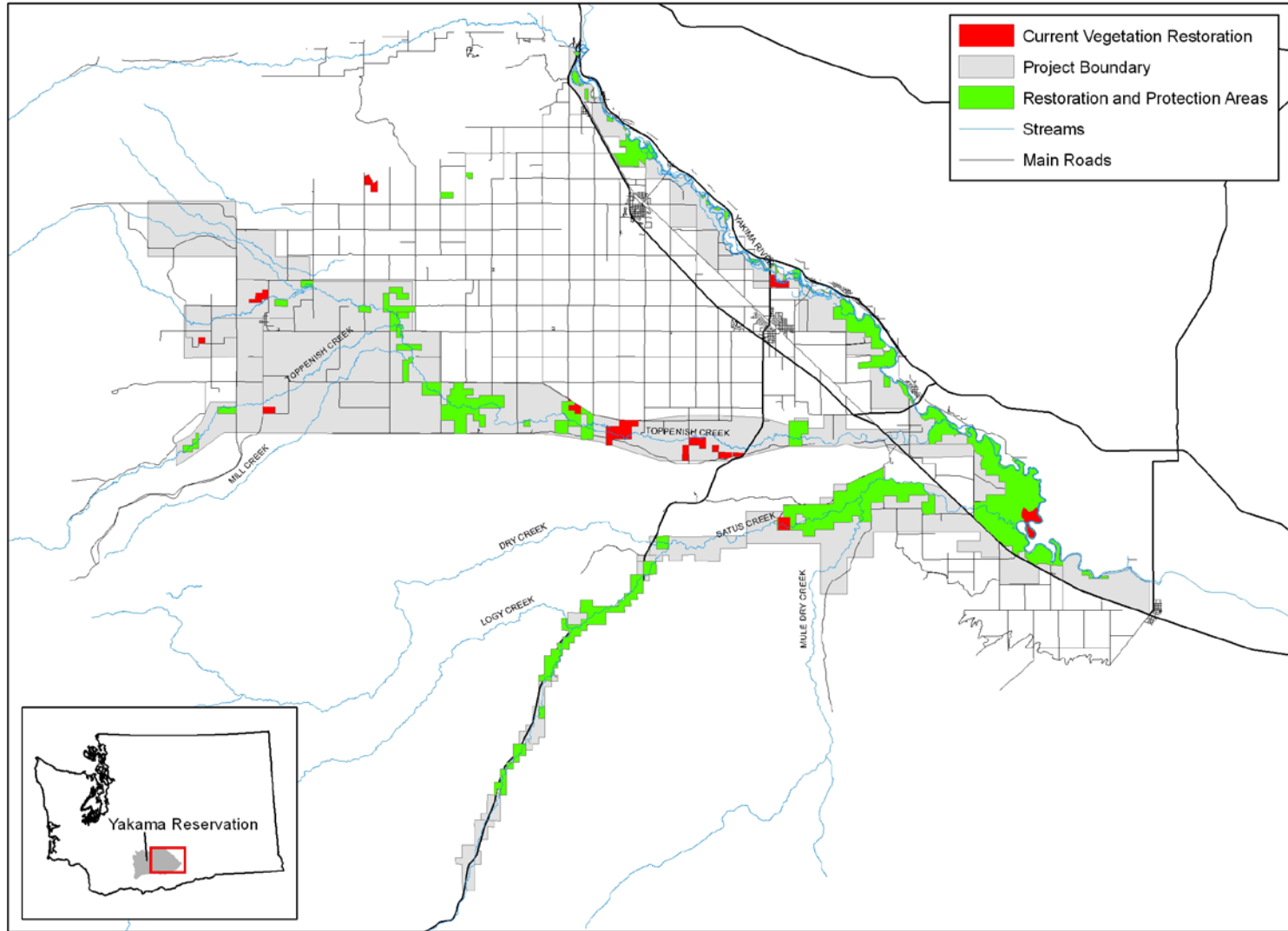


# PROJECT OVERVIEW

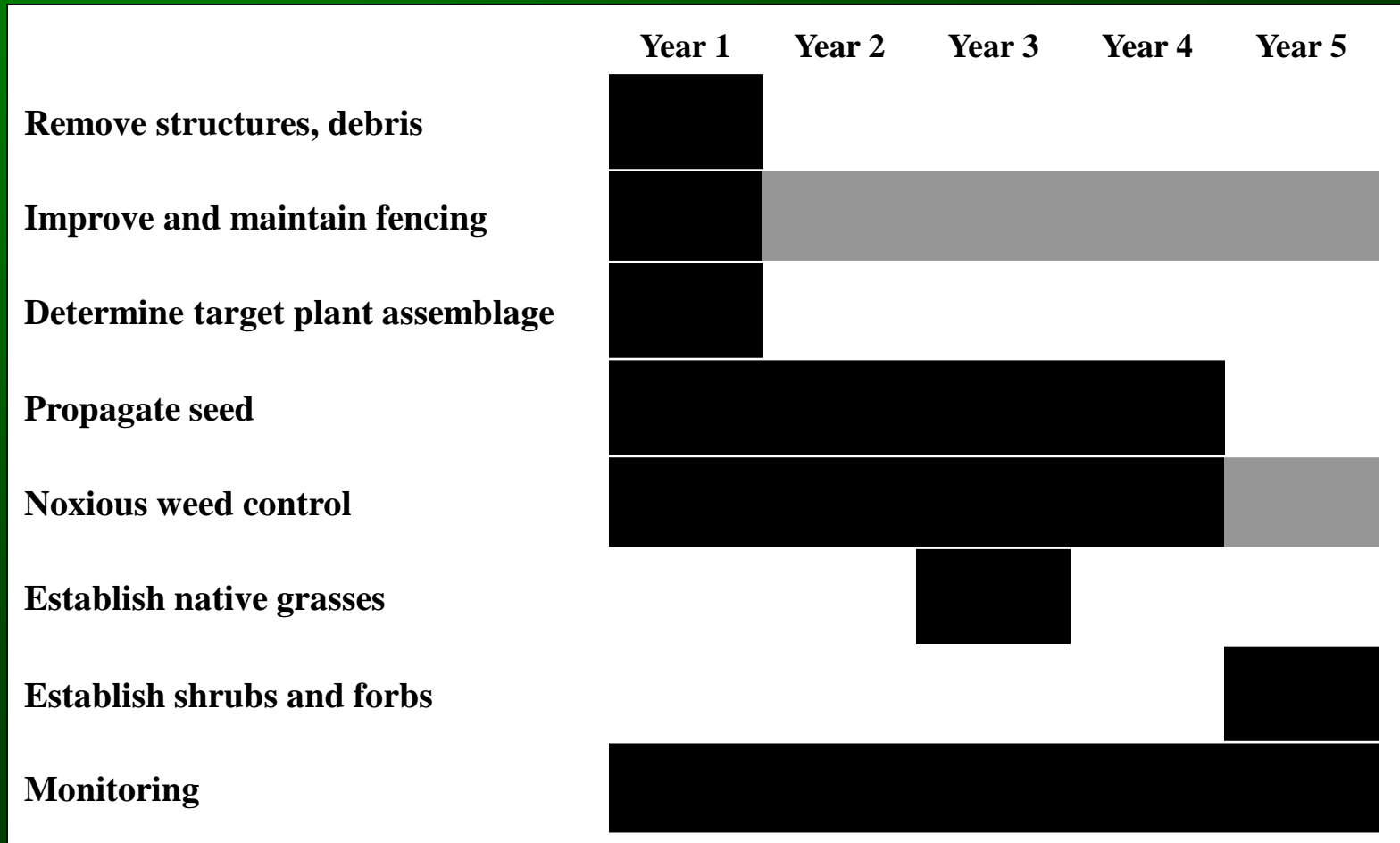


# PROJECT OVERVIEW

## Wetlands Restoration Project Floodplain Terrace Vegetation Restoration



# RESTORATION METHODS



## Determine target plant assemblages

### Greasewood flat associations

- Greasewood/saltgrass/basin wildrye
- Basin wildrye or Basin wildrye/basin big sagebrush

### Riparian woodland





## Propagate native seed

*Leymus cinereus* – basin wildrye

*Pseudoregneria spicata* – bluebunch wheatgrass





# RESTORATION METHODS

## Invasive plant control

**Cultural**



**Chemical**



**Biological**



**Mechanical**





# RESTORATION METHODS

## Revegetation

*Reintroduce native grasses*





## Revegetation

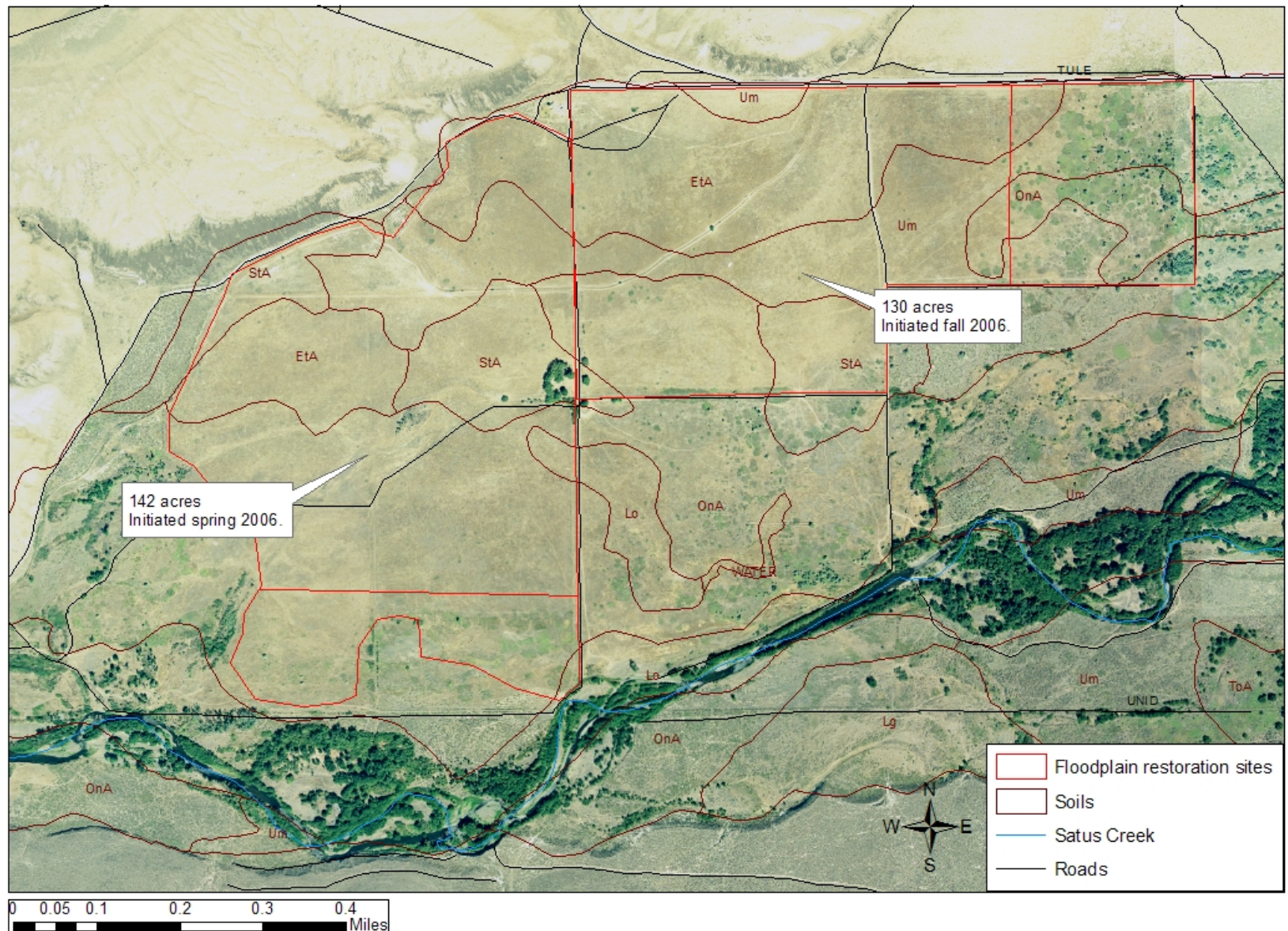
- Weed control during establishment
- Reestablish native shrubs and forbs
- Monitoring to modify management when necessary





# TULE RD SITE

## Lower Satus - Tule Road Restoration Sites





# TULE RD SITE



Seed mix:  
9% LECI  
58% POSE  
33% DISP

# TULE RD SITE

April 2006  
Prior to work



June 2007  
Following 1 yr  
weed control and  
native grass seeding





## Early Results

- 2% germination overall
  - 4% LECI
  - 1% POSE
  - No DISP to date
- 1% cover
- 11 seedlings/m<sup>2</sup>
- 8 cm height



## Early Results

- 11% germination overall
  - 20% LECI
  - 5% POSE
  - No DISP to date
- 3.6% cover
- 56 seedlings/m<sup>2</sup>
- 25 cm height



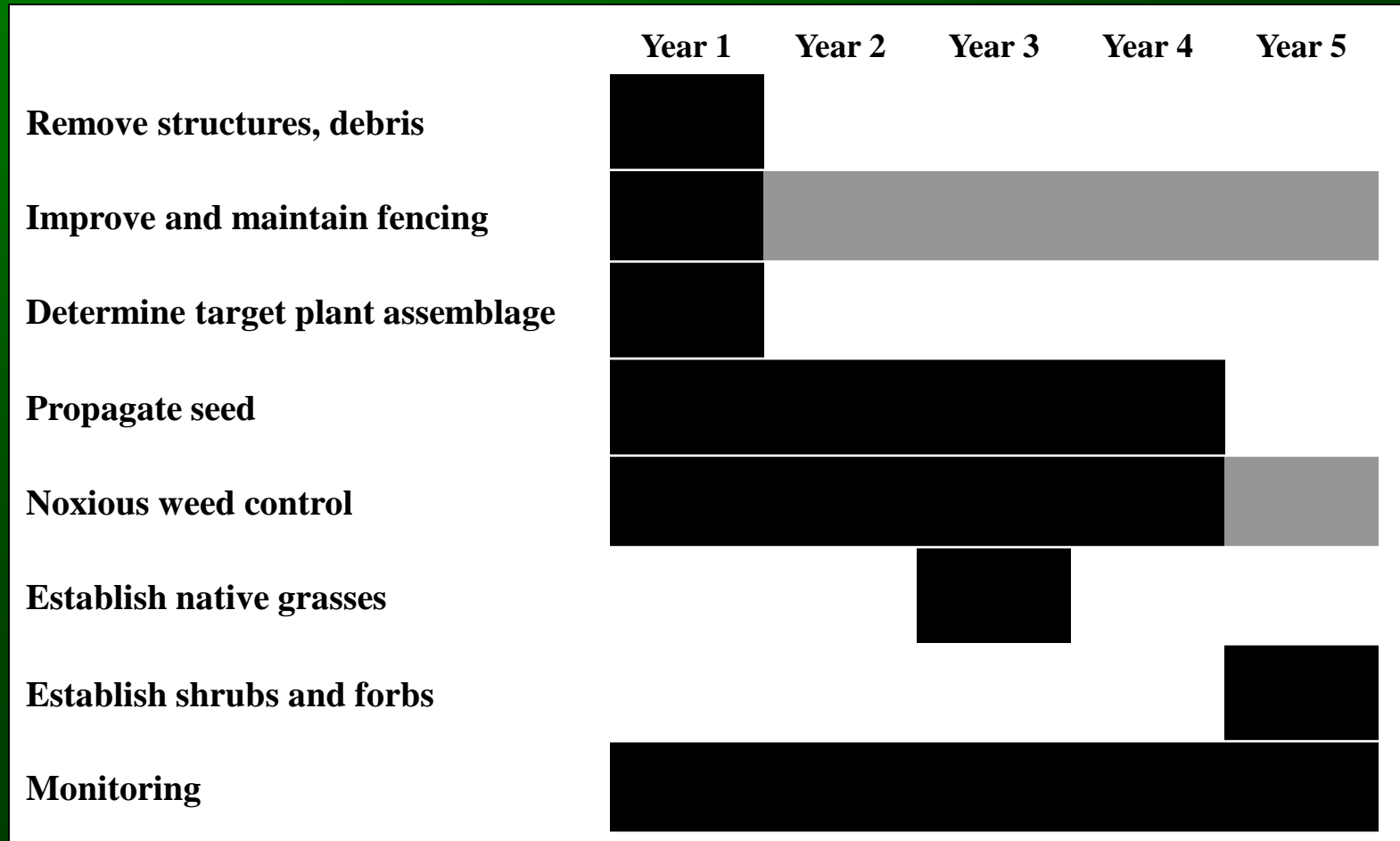


# South Lateral A – 7 years later

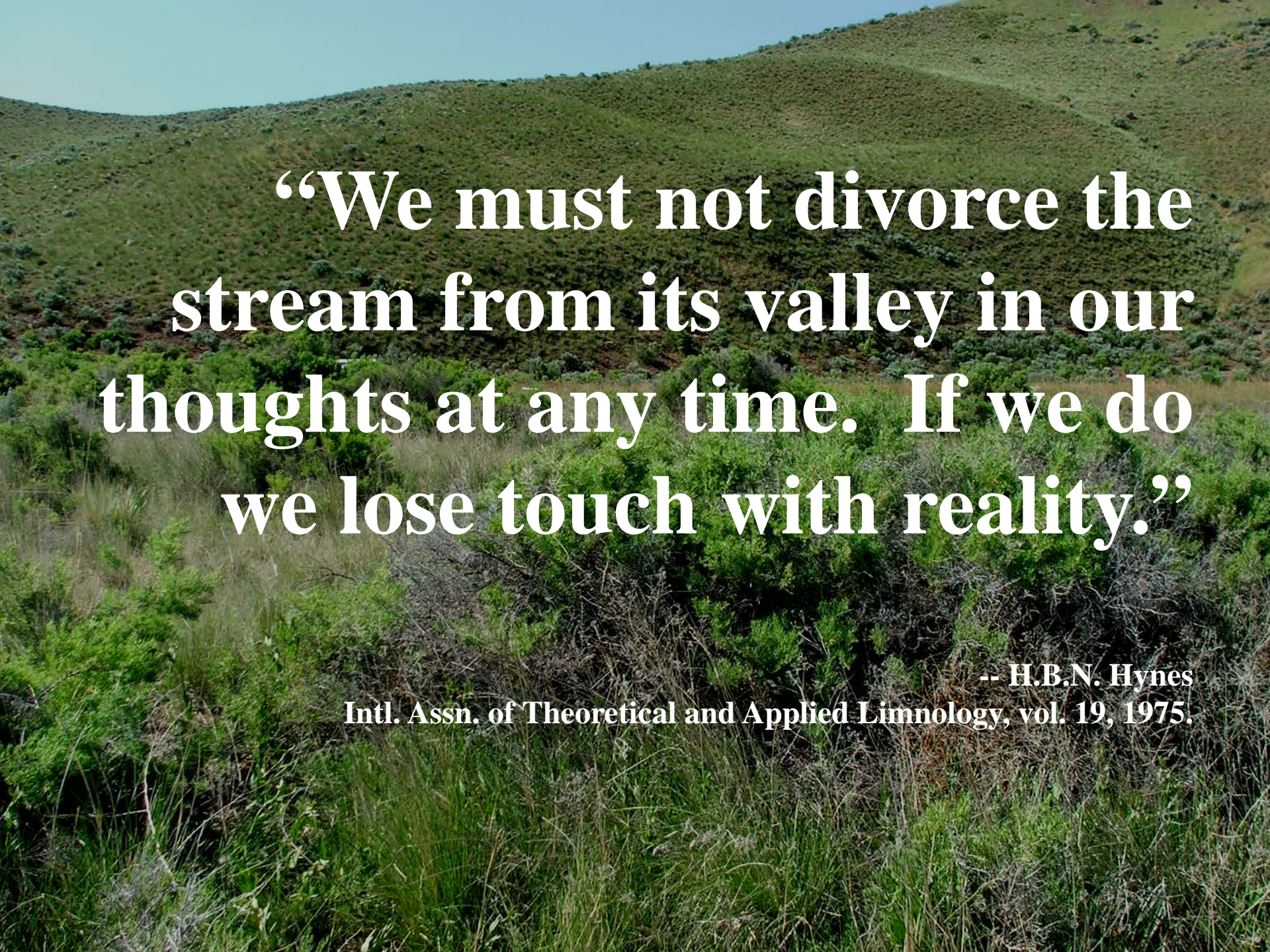


# COSTS

Costs per acre for five-year project: \$380-\$450





A landscape photograph showing a valley with green hills and dense vegetation. The text is overlaid on the image.

**“We must not divorce the stream from its valley in our thoughts at any time. If we do we lose touch with reality.”**

**-- H.B.N. Hynes  
Intl. Assn. of Theoretical and Applied Limnology, vol. 19, 1975.**