

Signal Peak Landscape Analysis



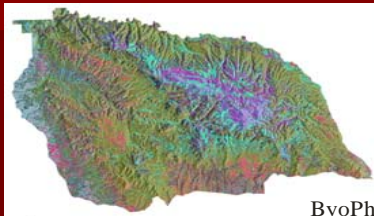
Landscape Assessment Objectives

- Assess ecological issues and prioritize restoration needs at the scale of landscape disturbances
- Integrate ecological objectives (T&E species, fire reintroduction) w/social objectives (cwpp, economics)
- Effectively assess cumulative affects of proposed restoration
- Increase NEPA efficiency by covering more ground and eliminating redundancy of many small scale analyses

Landscape Assessment Objectives

- Create a reservoir of restoration projects for an extended period of time.
- Incorporate projects into agency program of work
- Leverage long-term funding opportunities.
- Coordinate restoration by-product supply to allow for long-term business planning and economic development by community-based restoration businesses.

Signal Peak Area



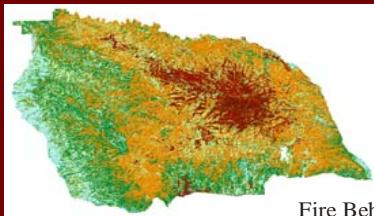
ByoPhysical Settings



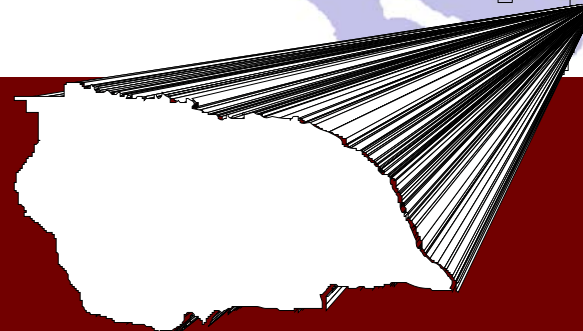
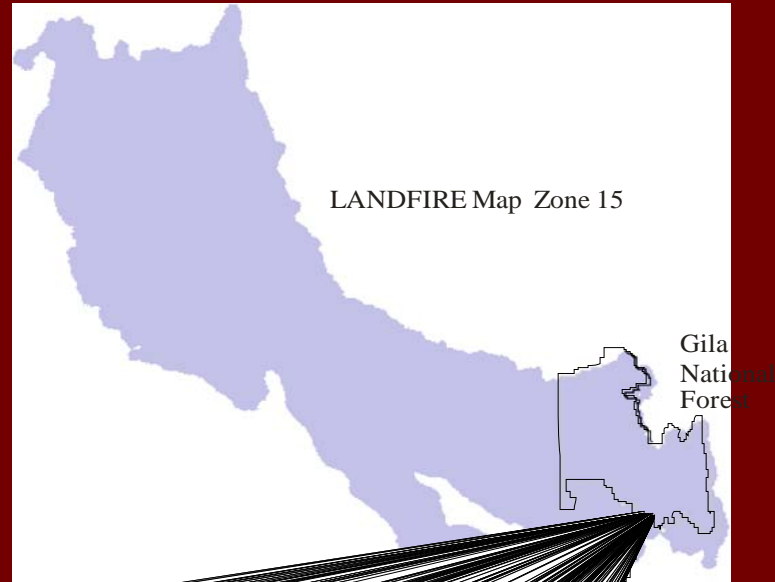
Fire Regime Condition Class



Existing Vegetation



Fire Behavior Fuel Model 13



Signal Peak Project Area

Signal Peak Landscape Assessment

- Assessment area included mixed ownership of about 300K acres.
- Included 1 large watershed and parts of 2 adjacent watersheds with interrelated issues.
- Included all agencies, local industry, and conservation groups.
- Priorities for protection/restoration included WUI areas, MSO PACs, and re-introduction of landscape fire.

Steps for Landscape Assessment and Planning

- Complete landscape scale assessment
- Complete collaborative large scale NEPA analysis
- Assess utilization and economic development potential of restoration treatments
- Establish a rigorous long-term monitoring and education program

Landfire GIS Layers



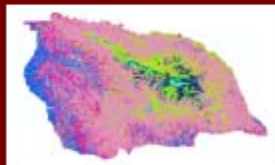
Digital Elevation Model



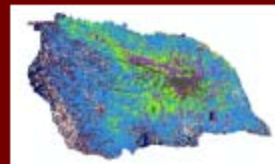
Slope



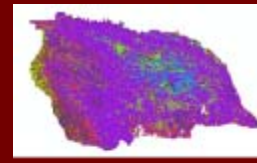
Aspect



BioPhysical Settings



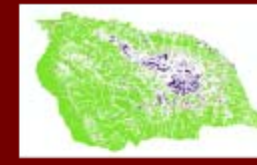
Existing Vegetation



Succession Class



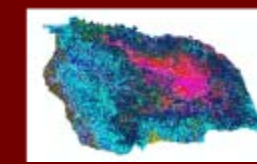
Canopy Cover



Canopy Base Height



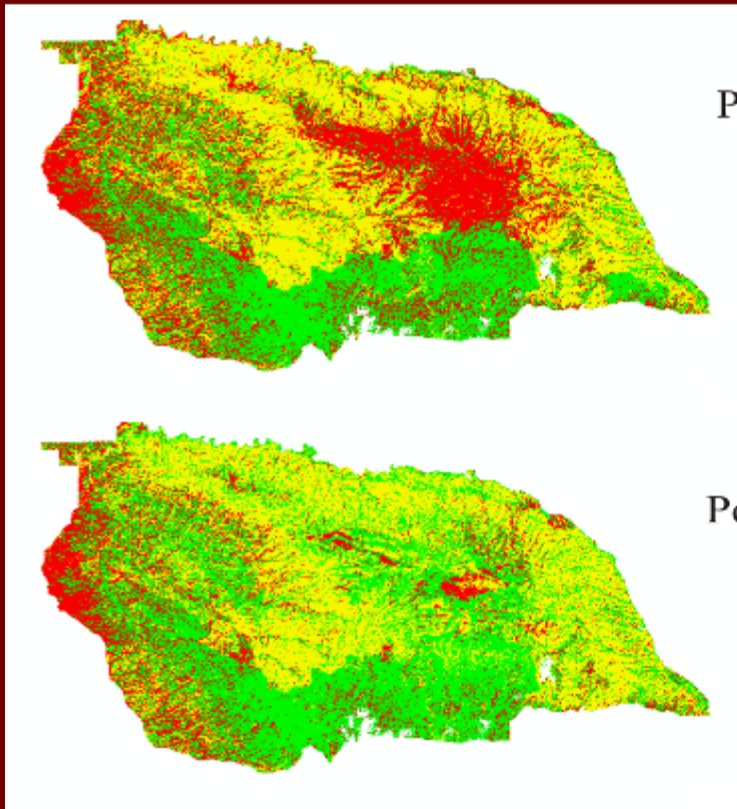
Canopy Bulk Density



Fire Behavior Fuel Model 13

Signal Peak Assessment-Objectives

- Identify fire risk at landscape scale

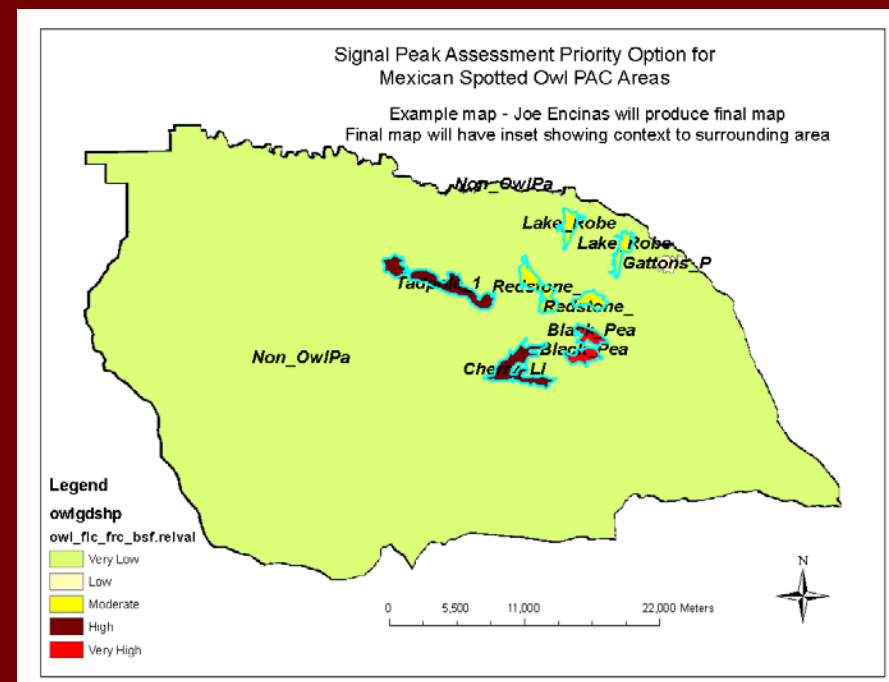
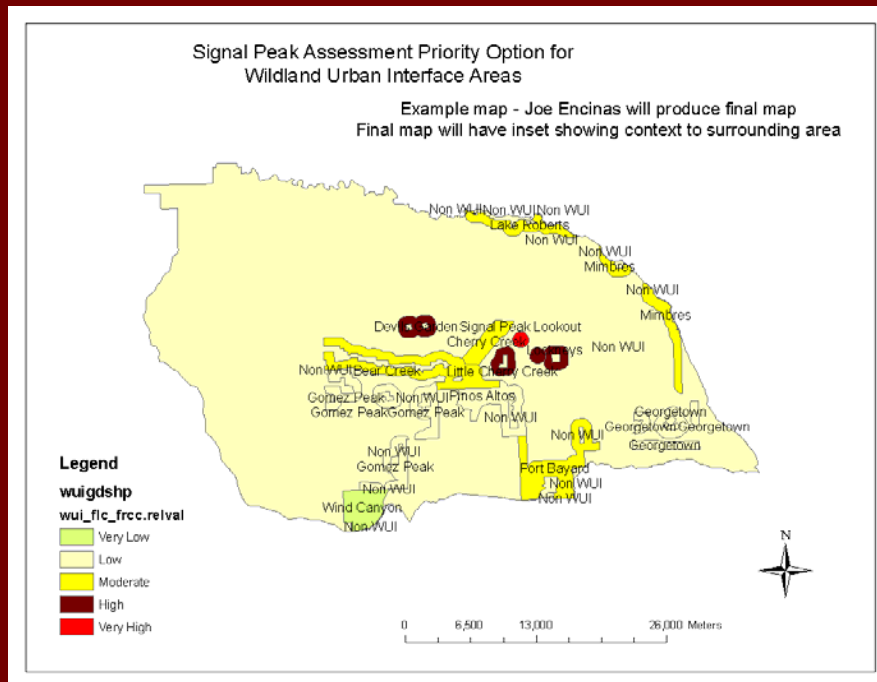


Preliminary Stand FRCC

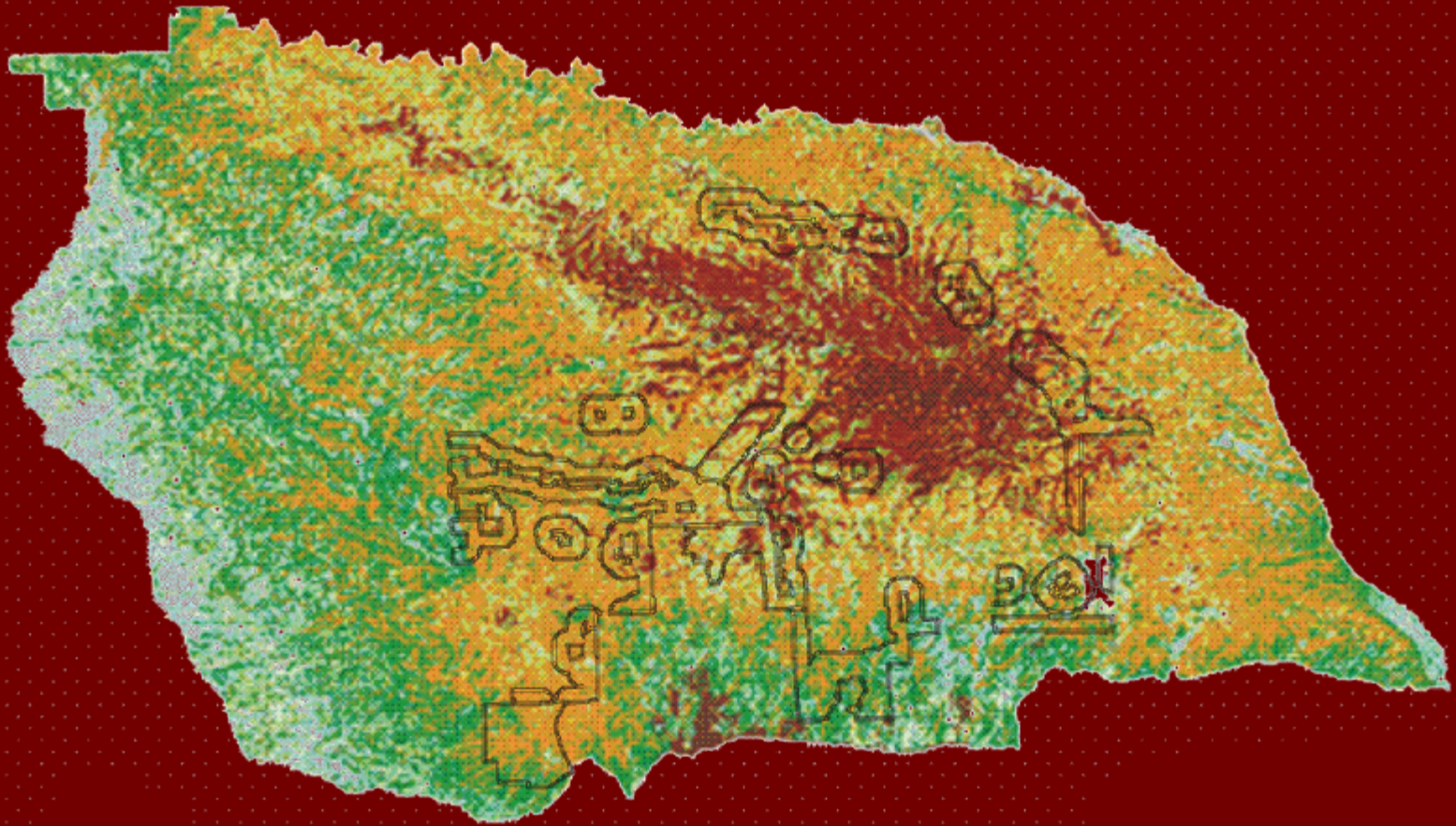
Post Management Stand FRCC

Signal Peak Assessment Objectives

- Integrate WUI and T&E species with fire risk



Integrate and prioritize strategic restoration treatments



Signal Peak Nepa Analyses

- Will analyze restoration treatments (mechanical thinning and burning) across 27,000 priority acres.
- Wildlife (MSO and goshawk) surveys, archeological survey, timber stand exams were funded and contracted by CFRP recipient
- GNF is funding and contracting for EA.
- Preliminary proposed action includes 6000 acres of mechanical thinning and 21,000 acres of prescribed burning (in several burn blocks)

Signal Peak Economic Assessment...

- Evaluation of long-term treatment costs, including cost reductions associated with economic development and expansion of markets.



Signal Peak Economic Assessment

- Evaluation of restoration byproduct and economic development potential associated with mechanical thinning



Signal Peak Economic Assessment...

- Evaluation of community economic benefits offered by employment, tax assessments, local circulation of revenues and wages, fire prevention value, etc



Signal Peak Ecological Monitoring and Education Program

- Establish long-term monitoring plots at landscape scale including burn only plots.



Ecological Monitoring and Education Program

- Invest in local long-term monitoring capacity.
- Engage general public through field trips and media outreach



Signal Peak Ecological Monitoring and Education Program

- Engage local youth in monitoring process.
- Develop ecological restoration curriculum.



Landscape Planning Recommendations

- **Assess** ecological issues and **prioritize** restoration needs
- **Integrate** ecological and social issues
- Effectively **assess cumulative affects**
- **Increase NEPA efficiency** by planning at landscape scale
- **Create a pipeline** of restoration projects

Landscape Planning Recommendations

- **Incorporate** projects into agency program of work
- **Leverage** long-term funding requests.
- **Coordinate** restoration by-product supply to allow for **long-term business planning and economic development**

