

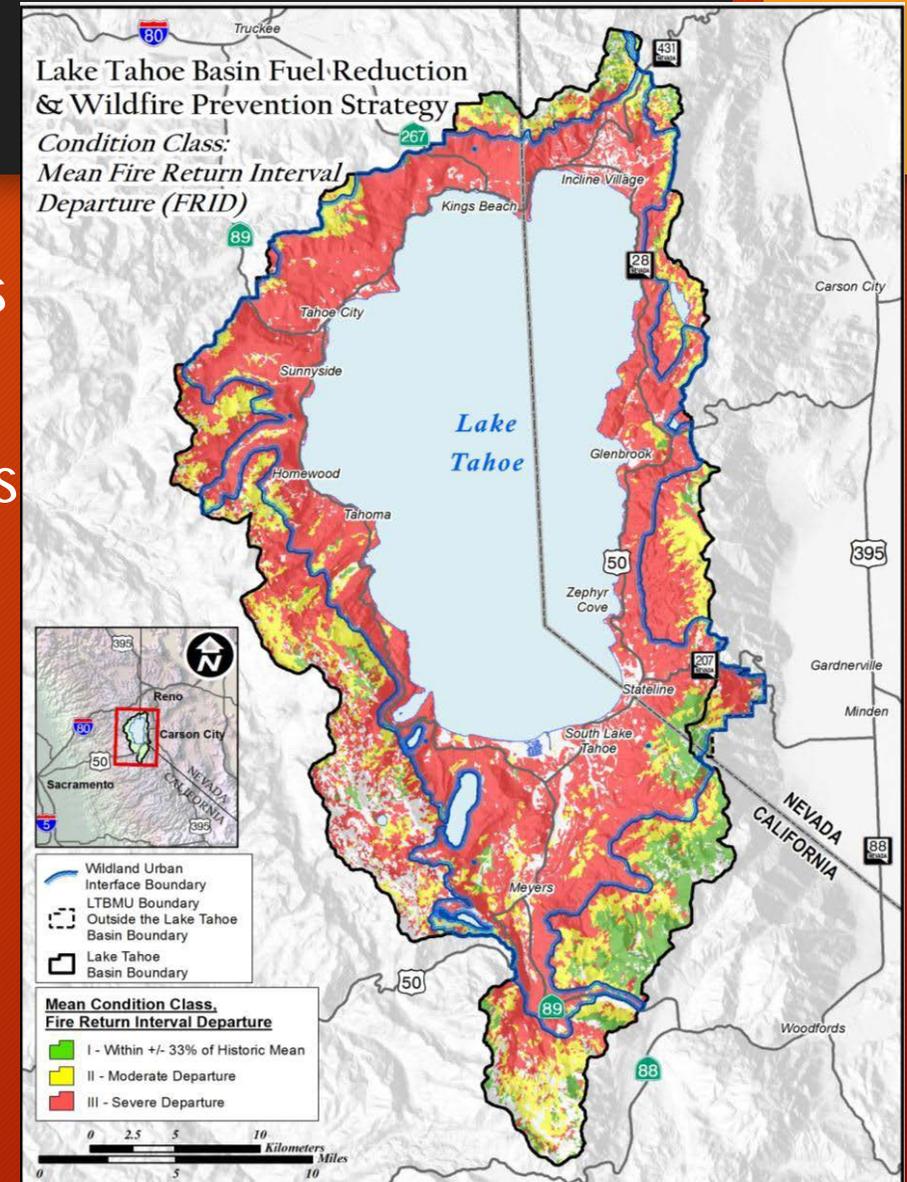
# EFFECTS OF PRESCRIBED FIRE IN JEFFERY PINE DOMINATED FORESTS BEFORE AND DURING DROUGHT CONDITIONS

Kyle Jacobson

USFS Lake Tahoe Basin Management Unit

# Background

- 4 times as many trees as historic conditions
- Burns less than historic
- Severe departure from reference conditions
- Increased urbanization



# Goals and Methods

- Goals
  - Improved Forest Health
  - Less susceptible to mortality
  - Reduction of wildfire risk
- Methods
  - Hand thin and Pile
  - Pile and understory burn



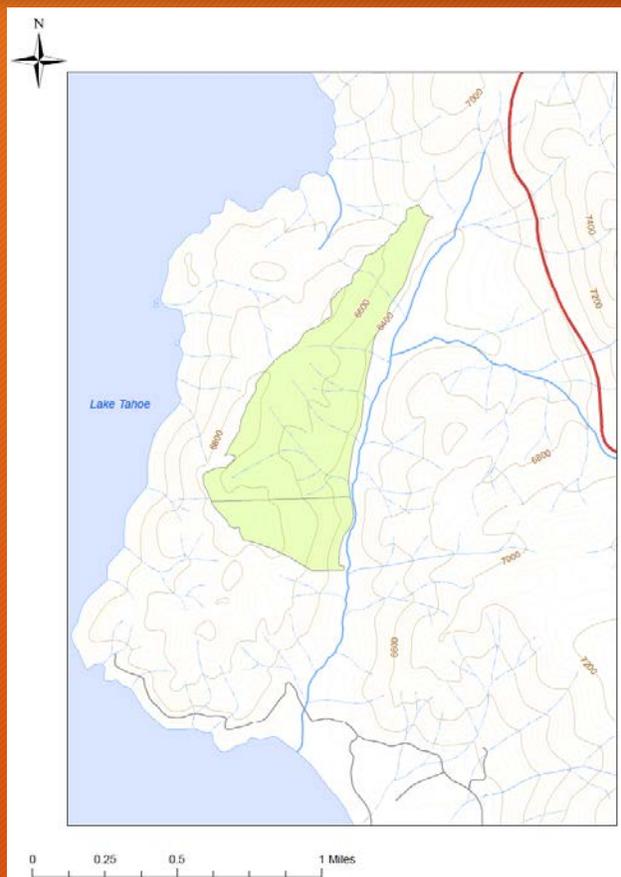
# East Shore Burns 2010-2014

- Jeffrey Pine Dominated
- Even Aged (Comstock)
- Slaughterhouse 2010
- Montreal 2013
- Summit 2014
- Montreal Aspen 2014



# Slaughterhouse Burn -245 acres

April 18-19, 2010



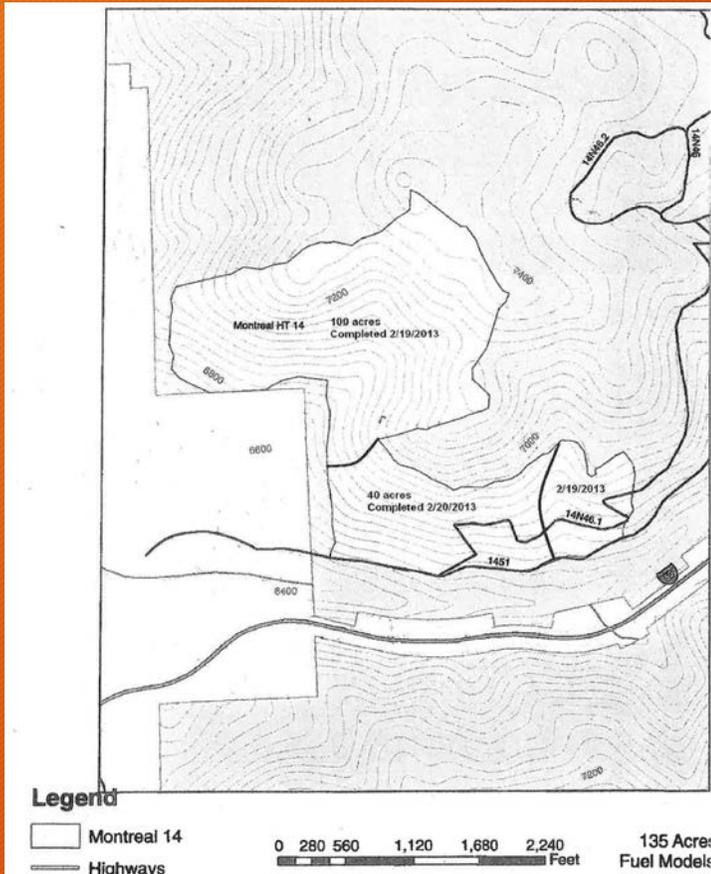
	Burn Plan	4/18/2010	4/19/2010
MFWS	<20	0-5	0-6
TEMP	<85	54-56	50-55
RH	>20	37-45	51-55





# Montreal- 135 acres

February 19-20, 2013

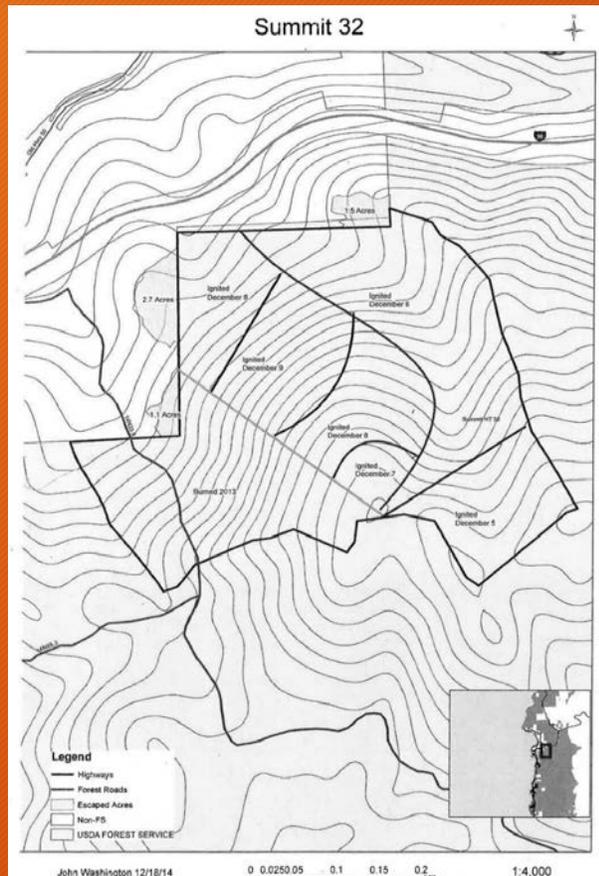


	Burn Plan	2/19/2013	2/20/2013
MFWS	<20	5-10	5-10
TEMP	<85	29-33	30-37
RH	>20	66-77	70-76



# Summit- 219 acres

December 5-11, 2014

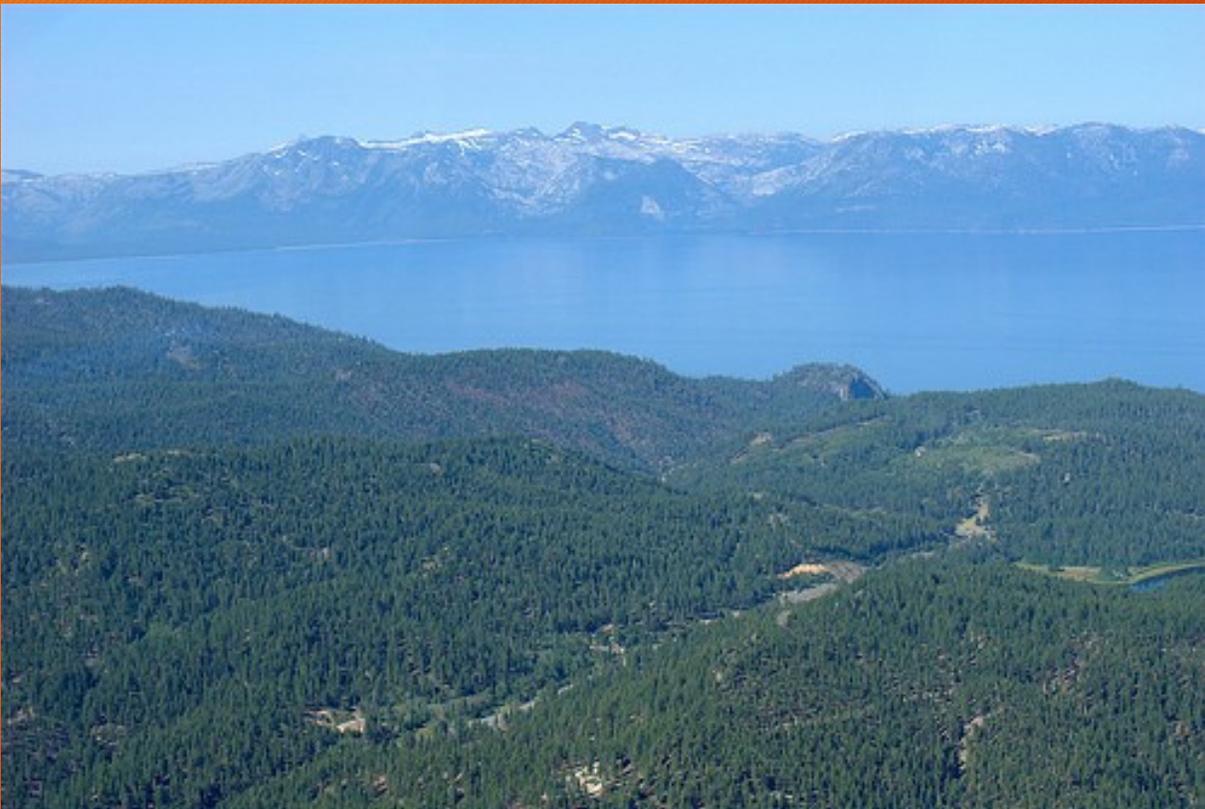


	Burn Plan	12/5-9/2014	12/11/2014
MFWS	<20	2-5	8-12
TEMP	<85	37-48	35
RH	>20	80	78

## Mitigations

- Higher RH
- Cooler Temps
- Higher Wind Speed
- After Precipitation
- Modified Ignition Pattern

# Summit- 2016 Photos



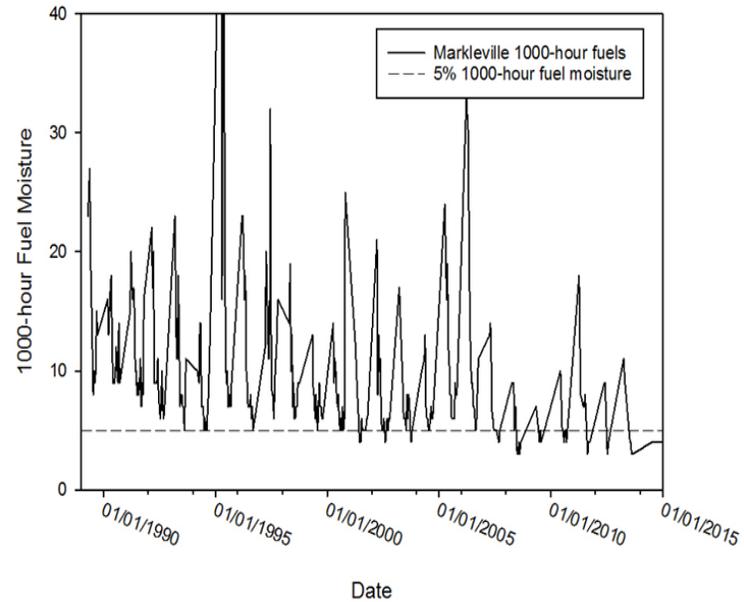
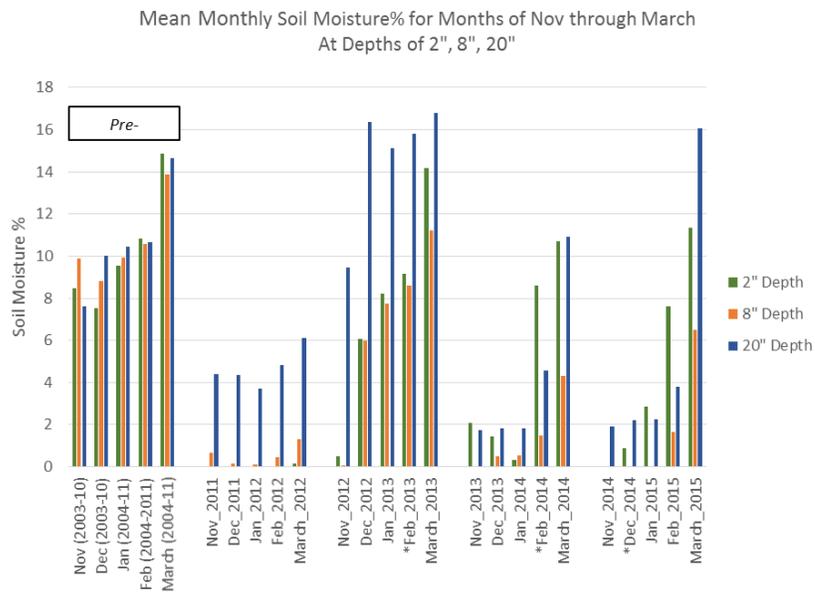
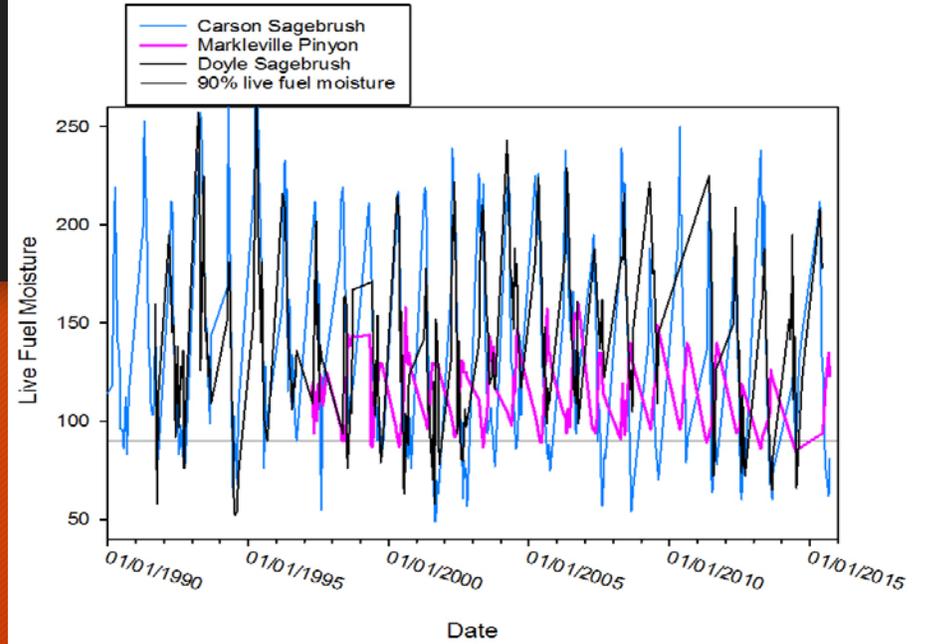
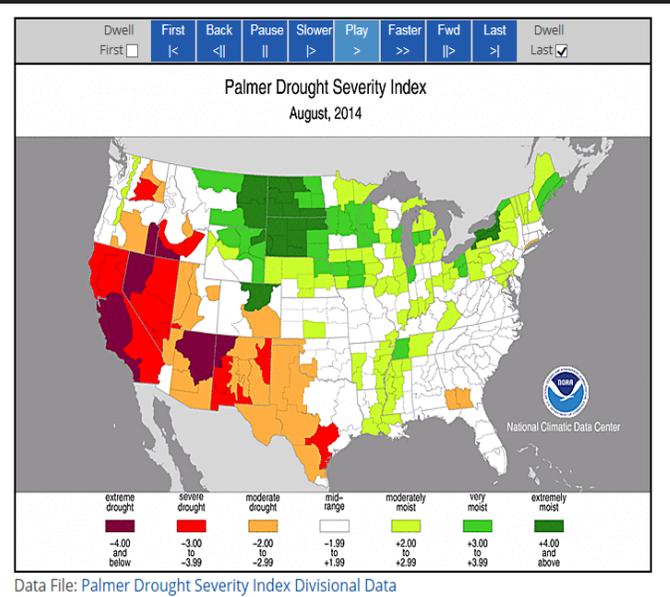
# Montreal Aspen- 30 acres

December 5, 2014

- Scorch 12 - feet
- June - 80% red needles
- Less mortality in Aspen areas



# Drought



# Mortality

- Land Resource Management Plan
  - NEPA
  - Public Opinion
- Fuel Treatments / Wildland Fire
- The Future ?
  - Drought
  - Climate Change
- Additional Monitoring

Questions???

Thanks - AMSET

