Nevada Division of Forestry Fire Protection

Statewide Wildland Fire Hazard Mitigation



NDF Wildfire Hazard Mitigation Program

- Community Protection from Wildfire
- Nevada Community Wildfire Protection Plans
- Fuels Mitigation
- Wildfire Rehabilitation
- Landscape Restoration

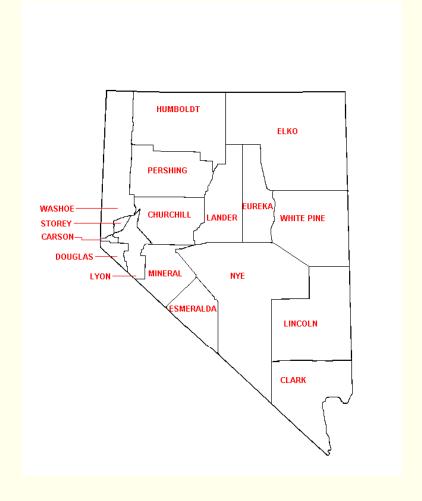
Community Protection from Wildfire

- Fuel Reduction
- Develop / Improve Water Delivery Systems
- Building Suppression Capability
 - Equipment
 - Training
- Communication
 - Preparedness
 - Emergency
- Evacuation
- Shelter



Nevada Community Wildfire Protection Plans (CWPP)

- 266 Communities at Risk from wildfire
- 218 CWPP's completed ranking communities at:
 - Extreme
 - High
 - Moderate
 - Low



County CWPP's

	Extreme	High	Moderate	Low	Total
Carson City	0	1	2	1	4
Churchill	0	1	2	3	6
Clark	4	3	5	18	30
Douglas	1	16	7	4	28
Elko	3	13	15	4	35
Esmeralda	0	0	4	1	5
Eureka	0	1	3	2	6
Humboldt	0	1	6	3	10
Lander	0	2	1	3	6
Lincoln	2	1	4	0	7
Lyon	0	1	8	4	13
Mineral	0	1	4	1	6
Nye	2	1	4	3	10
Pershing	1	1	6	0	8
Storey	1	2	2	0	5
Washoe	2	4	20	5	31
White Pine	0	1	7	0	8
	16	50	100	52	218

Rural Assessment

- Initial CWPP assessment covered communities within 3 of the 4 the Wildland Urban Interface (WUI) conditions:
 - Interface
 - Intermix
 - Occluded
- Second assessment will cover the Rural condition of the WUI

2007 Nevada Fuel Conditions

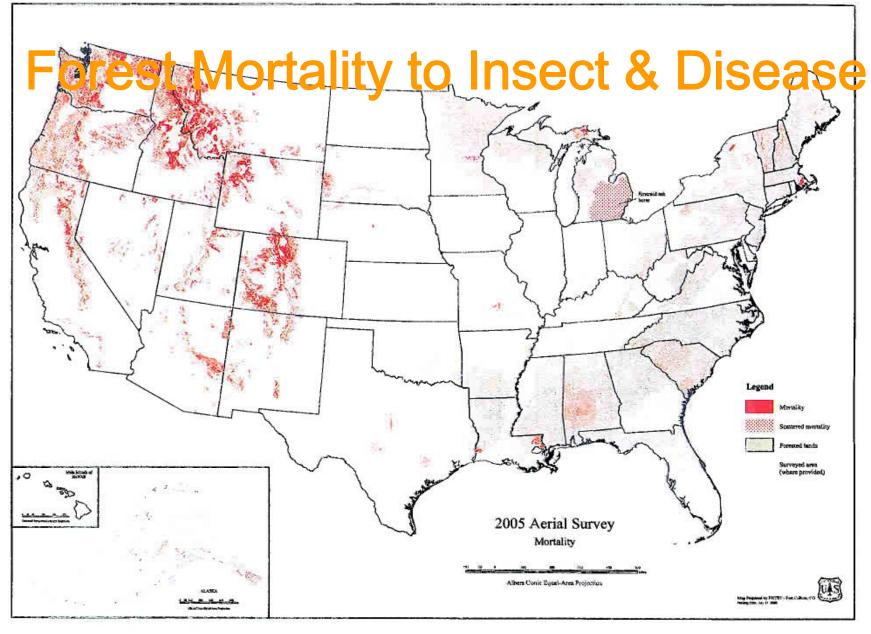


Nevada's Forests & Woodlands

- Fuel loading ranging from 1000 to 1500+ lbs per acre in the grass and shrub component to 25 tons per acre in the forested areas.
- Pinyon/Juniper woodlands and sagebrush areas are showing stress due to drought and insect invasions.







Attacks of Pinyon Pine Ips Beetle have left standing dead trees.



Southern Nevada

Fine fuel loadings are extremely heavy throughout Southern Nevada. This is due to past years abundant precipitation and lack of snow fall the past two years.

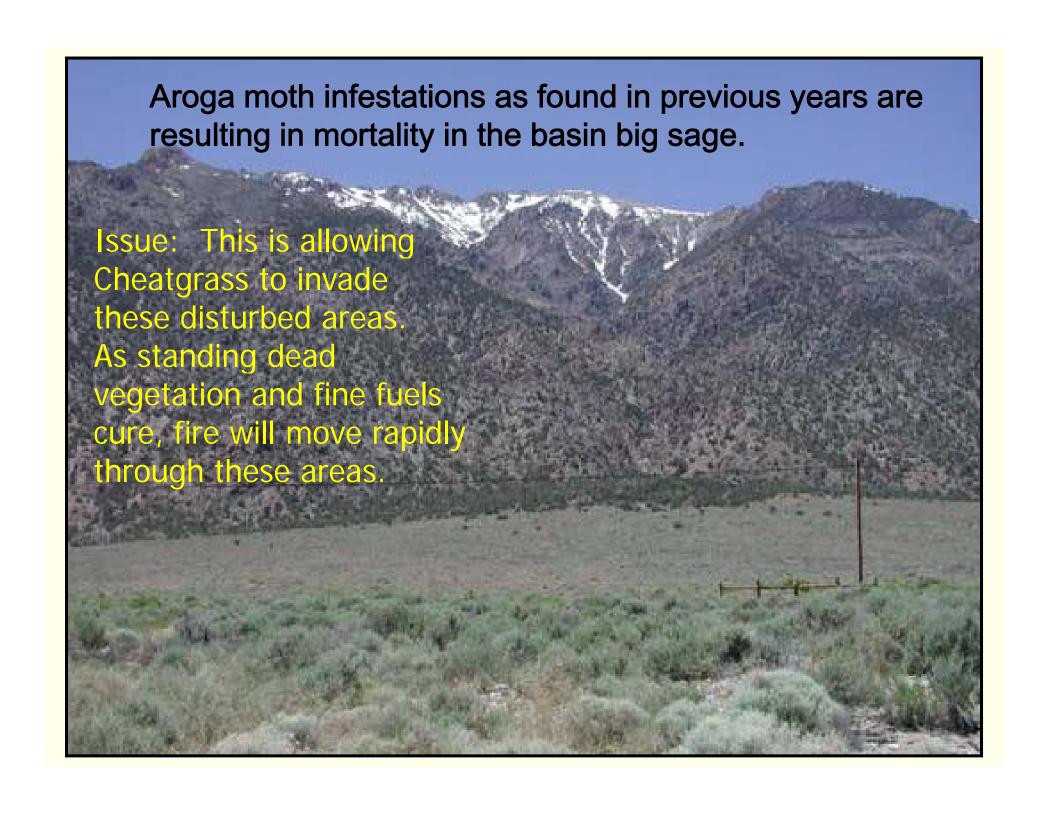


Northern Nevada

Winnemucca fine fuel loads are ranging between 1 ton per acre to well over 1.5 tons per acre dry weight compared to 200-400 pounds in a "normal" year.

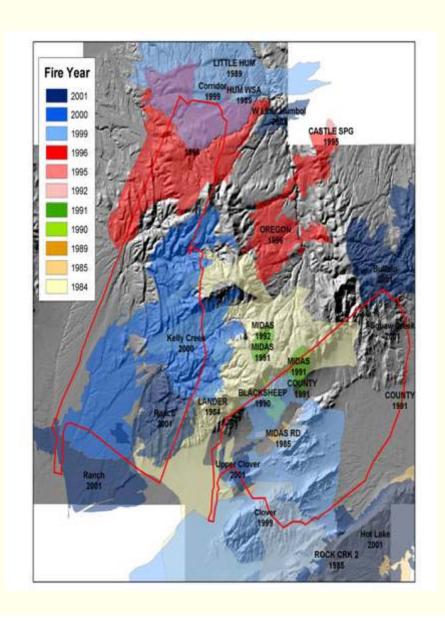
The heavy growth of Cheatgrass is beginning to create a dense layer of dead vegetation in many areas.



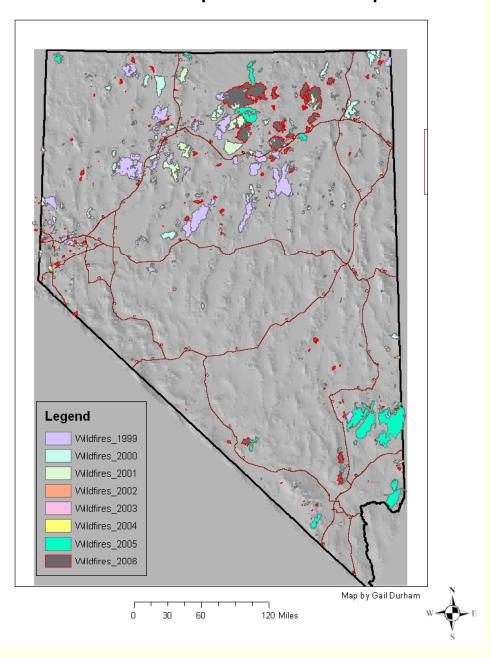


Cheatgrass Concern

Cheatgrass thrives on disturbances like wildland fire. The more a landscape burns, the more dominant Cheatgrass becomes and the more acres of land that are converted to it over time.



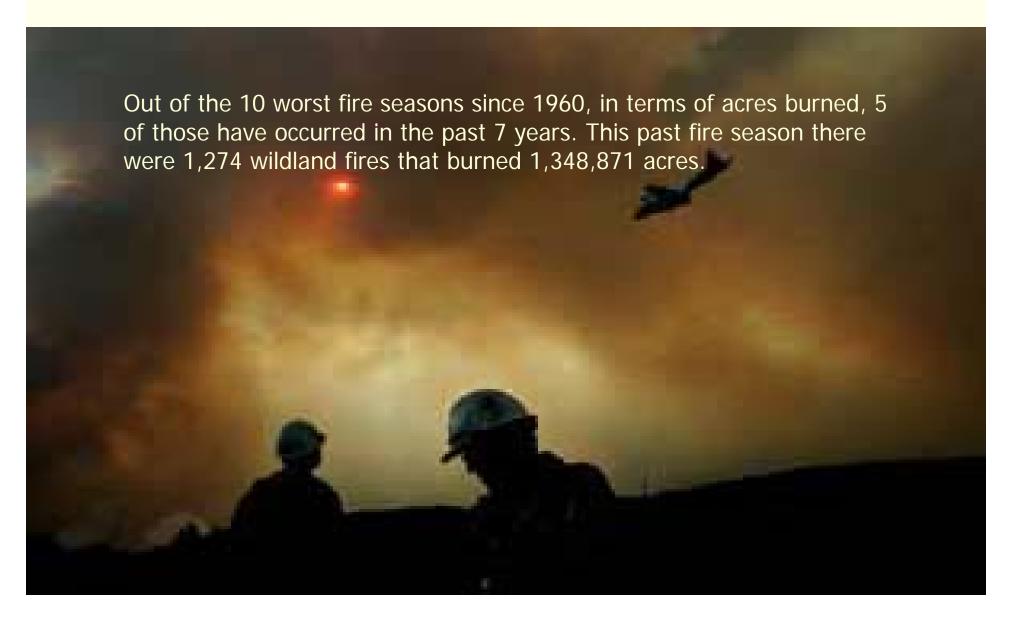
2006-1999 Composite NV Fire Map



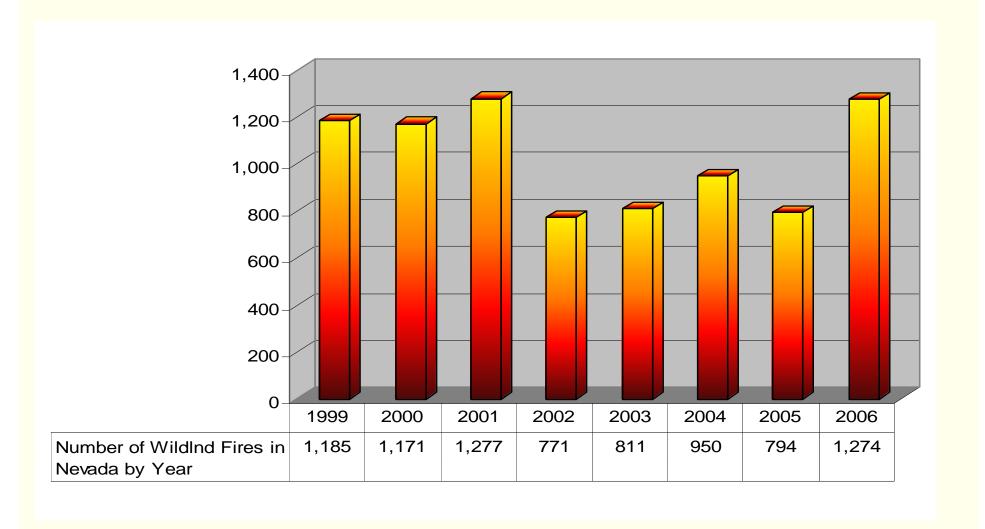
Large Fires in Nevada

Continue the cycle of Native Plant conversion to Invasive Grass Species

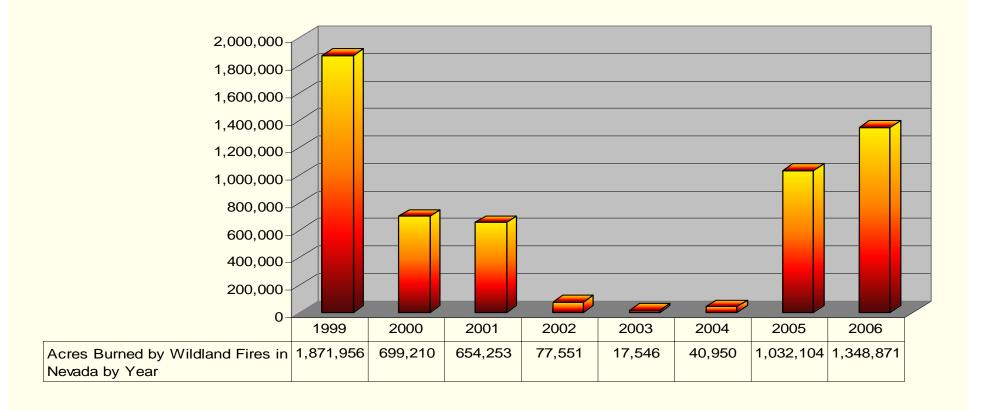
Trends show continued loss of acres to wildfire



Number of Wildland Fires



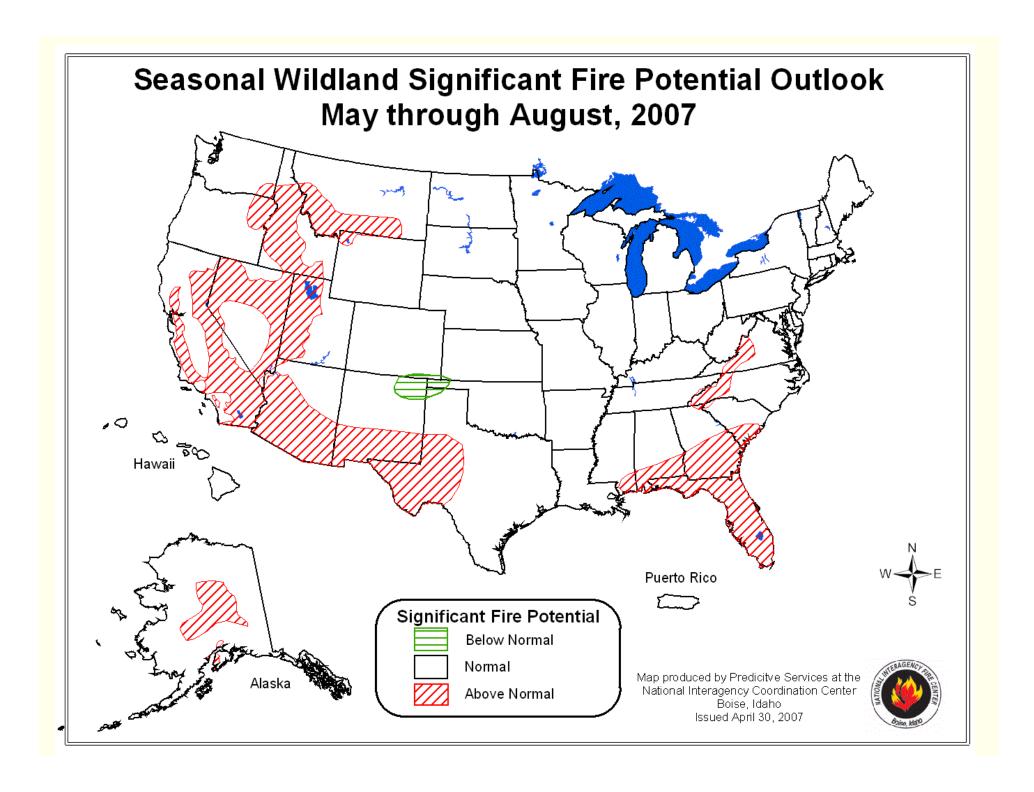
Acres Burned by Wildland Fire



Wildland Fire Outlook May through August, 2007

NEVADA: Potential: Normal to Above Normal.

A relatively dry winter and return to drought conditions, combined with two previous wet winters, has left large amounts of carryover grass across much of the state. Southern Nevada still has large pockets of cured standing cheat grass from 2005. Below normal winter snow pack, earlier than normal snowmelt, and an early green-up at elevations below 6000-7000 feet, will likely cause the onset of fire season to be 3-4 weeks early this year. Another active and prolonged grassland fire season is expected, especially if monsoon moisture is absent. High elevation areas are likely to have lower than normal soil moistures and dead fuel moistures, especially in the north. Insect and frost killed vegetation will increase fire risk in affected timber and shrub regimes across the mid- and upper elevations of the state.



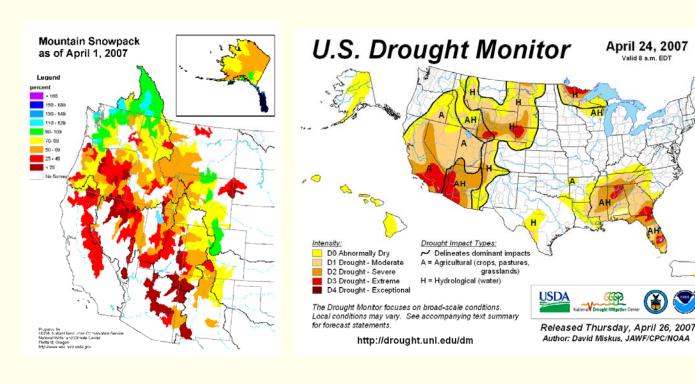
Temperature Forecasts May-July 2007 June-August 2007 **Precipitation Forecasts** May-July 2007 June-August 2007 A = Above Normal B = Below Normal N = Normal EC = Equal chances of above. below, or normal conditions Numbers represent the probability of occurrence. http://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead04 off index birol

Weather

Drought conditions have been expanding and intensifying over much of the West since last autumn. Many areas, including Alaska, have exhibited much below average snow pack through the winter and early spring months. Drought relief is not expected in these areas this summer (see images below).

The NOAA Climate Prediction Center seasonal outlooks for May-July 2007 predict a high likelihood of above normal temperature in the Southeast, Gulf Coast and Southwest, as well as southern and western Alaska. Increased likelihood of below normal temperatures is predicted for the northern plains states. For June-August 2007, the likelihood of above normal temperatures covers much of the West, Southeast, East Coast and southern Alaska. There is an increased likelihood for drier than normal conditions over portions of the interior West (see images at left).

April 24, 2007



Wildfire Rehabilitation

- Immediately implement measures to mitigate conditions that threaten Public Safety and further Landscape Degradation:
 - Suppression related damage
 - Ash & Dust Hazards
 - Stream Bank stabilization
 - Mud & Debris flow

Landscape Restoration

- Healthy Ecosystems
 - Forest & Range Health
 - Functional Watersheds
 - Strong Native Plant Communities
- Low Intensity Wildfire
 - Beneficial to Native Plant Communities
 - Non-threatening to Communities