Climate Change Adaptation
Planning For
Southwest Ecosystems

Mitigation and Adaptation to Climate Change
American Meteorological Society – 90th Annual Meeting
18 January 2010 – Atlanta, Georgia

Gregg Garfin
Drier

Winter

Spring

Summer

Fall

USGCRP, 2008

Percent Change

-40 -20 0 +20 +40

CMIP3-A$^{93}$
Massive pinyon pine dieback 2002-2004

Near Flagstaff, AZ
Photos: N. Cobb, NAU
Slide: L. Graumlich, UA
Erosion

Fire

Mortality

Images: C. Allen, USGS
Adaptation Target: Gunnison Headwaters
Adaptation Target:
Alpine Ecosystems
Adaptation Target: Gunnison Sage Grouse
Mortality Threshold

High

Drought Intensity

Low

Current Climate

Future Climate

MORTALITY

NO MORTALITY

Short

Drought Duration

Long

Craig Allen, USGS, Bandelier National Park
Southwest Climate Change Initiative

http://www.nmconservation.org
Southwest Climate Change Initiative

Progress:
• 210,000-acre landscape in the SW Jemez Mountains
• Santa Fe N.F., Valles Caldera N.P., Jemez Pueblo, NM

Forest and Watershed Restoration Institute, TNC

Next steps:
• Strategic landscape restoration plan
• Proposal to the Collaborative Forest Landscape Restoration Fund

http://www.nmconservation.org
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For more information & report downloads: [www.nmconservation.org](http://www.nmconservation.org)
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