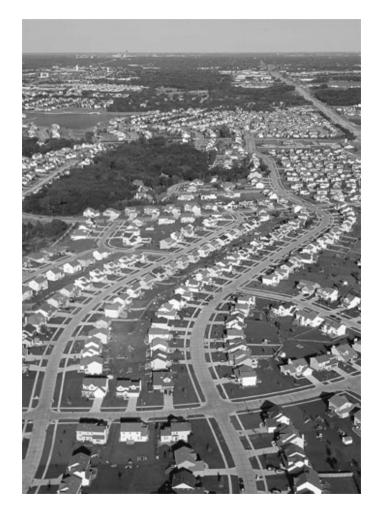
### Planning for Climate Change in the Interior West





# Panelists

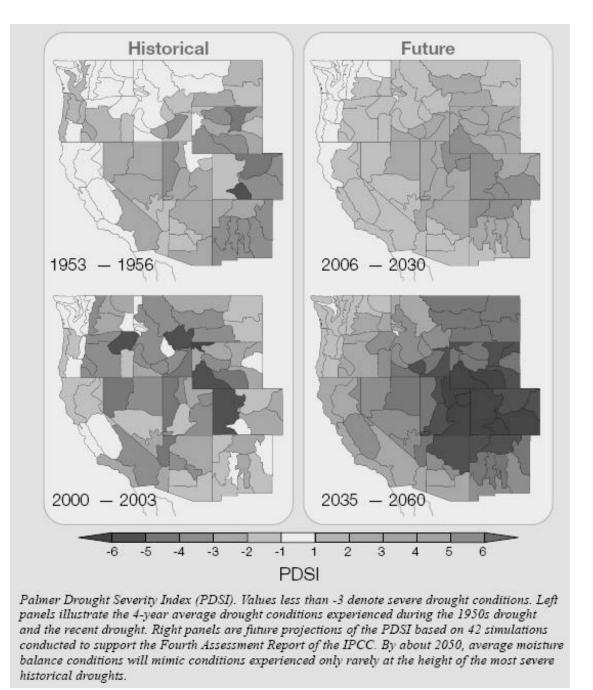
- Peter Pollock, FAICP
- Rebecca Carter, PhD
- Mark Ruzzin
- William R. Travis, PhD



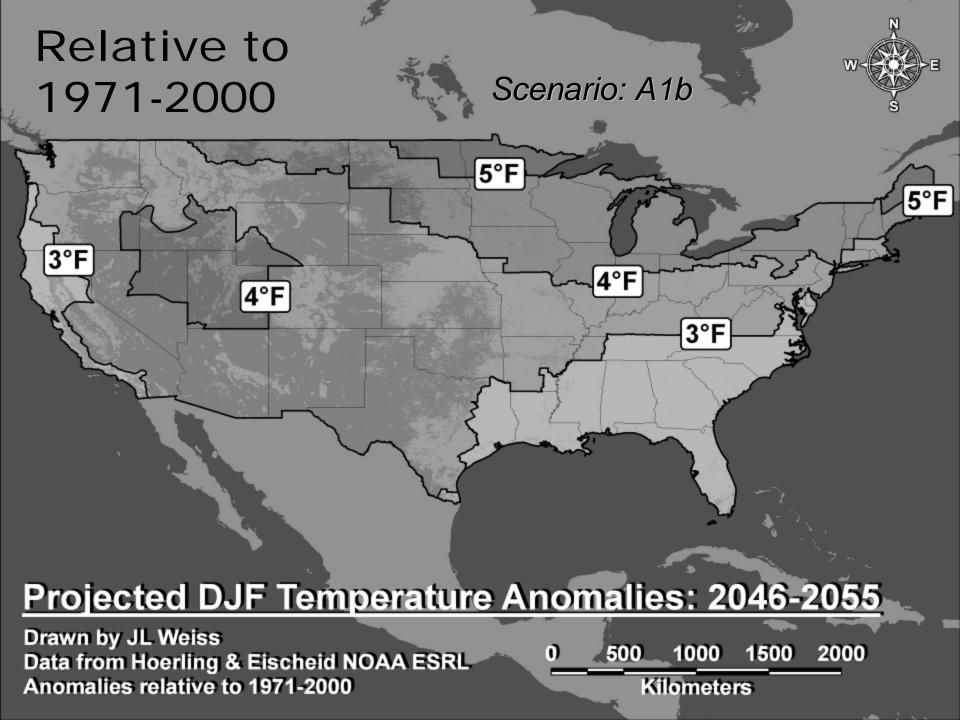


ICLEI Local Governments for Sustainability





Hoerling, Martin and Eischeid, Jon. Past Peak Water in the Southwest. Journal of Southwest Hydrology vol. 6 no. 1, Jan.-Feb. 2007.



# Relative to 1971-2000

5°F

4°F

Scenario: A1b

4°F

O



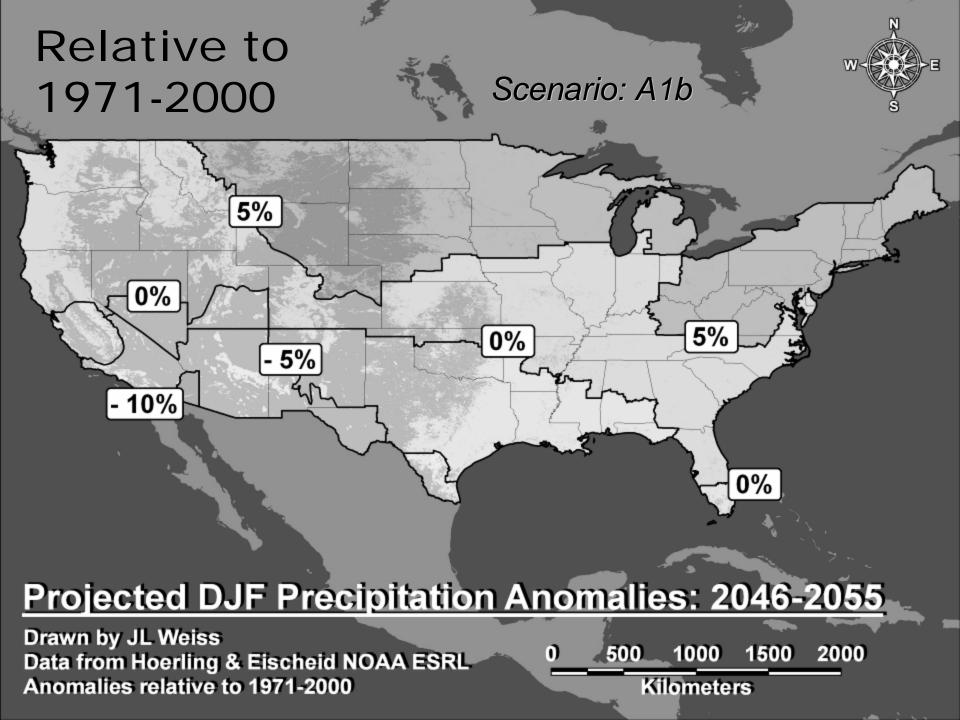
4°F

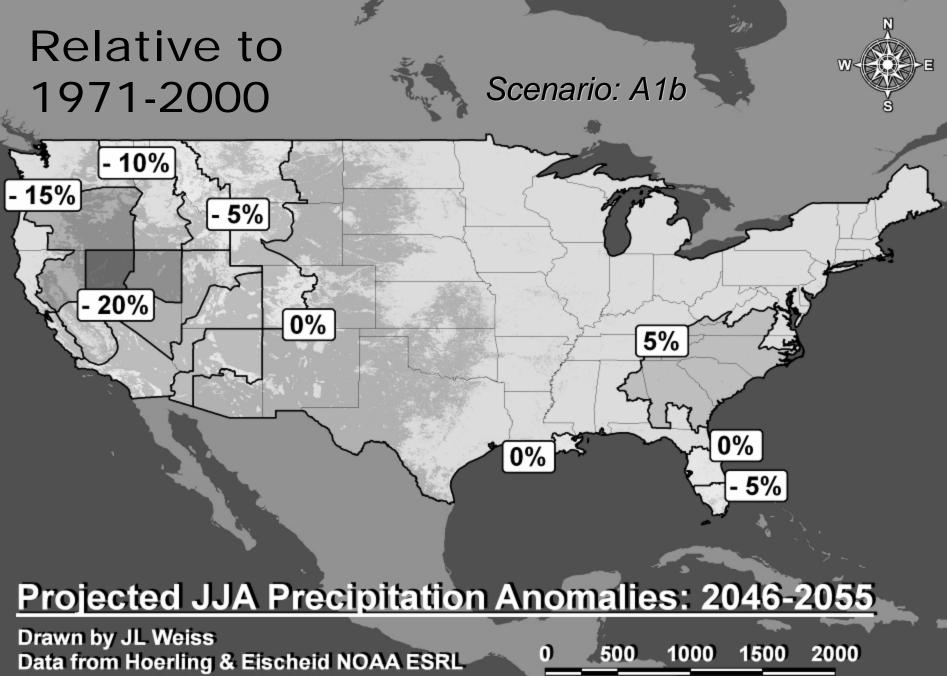
#### Projected JJA Temperature Anomalies: 2046-2055

Drawn by JL Weiss Data from Hoerling & Eischeid NOAA ESRL Anomalies relative to 1971-2000

5°F

500 1000 1500 2000 Kilometers





Anomalies relative to 1971-2000

Kilometers

## Hotter



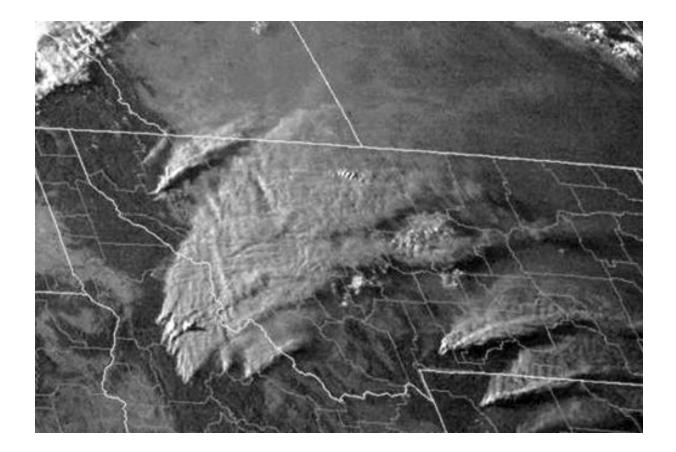
# Drier



### More insect infestations



### More fires



#### Faster snow melt

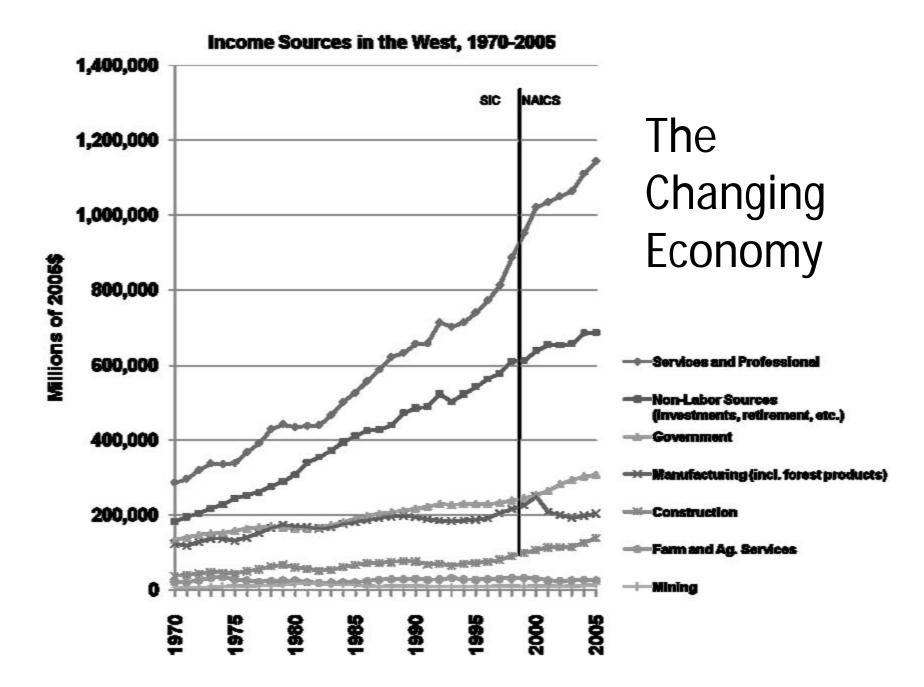


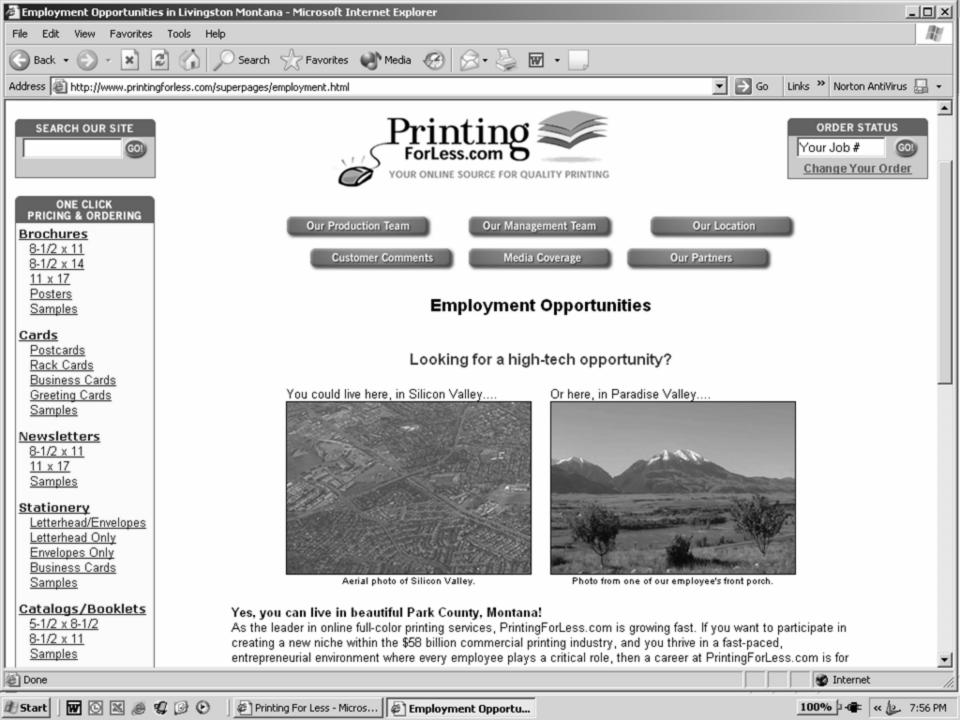
# More flooding



# It's not just the climate that's changing in the Interior West!

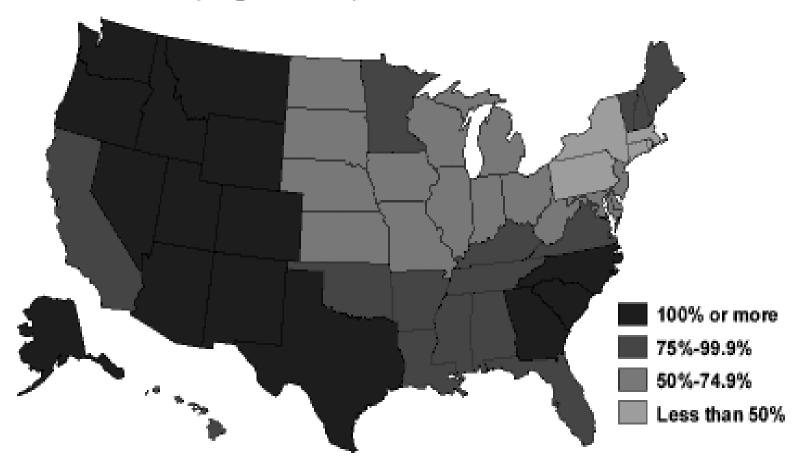






# **Changing Demographics**

Percent Change in the Population Age 65 and Older, by State, 2000 to 2020

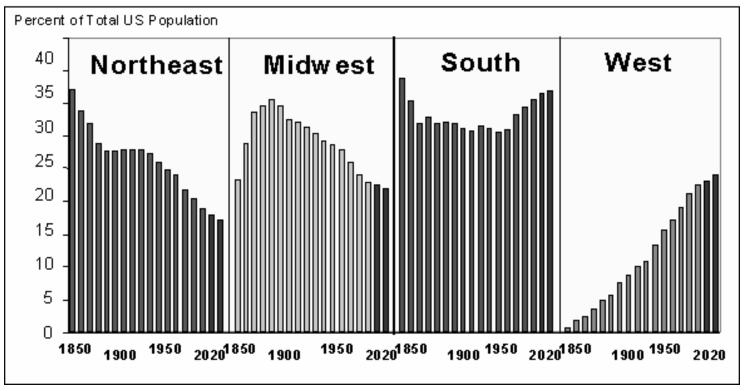


Source: Population Reference Bureau using Census Bureau. 2000 data

# **Population Growth**

#### Figure 1

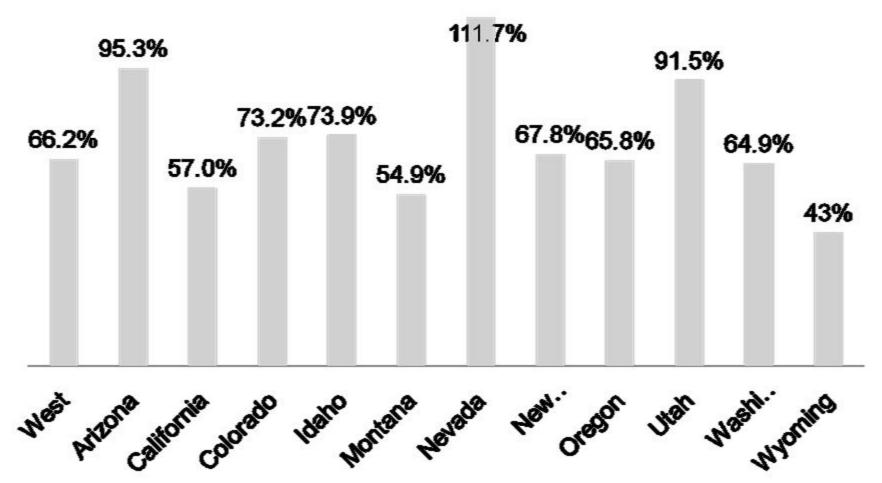
#### The West Has Gained Share of U.S. Population Every Decade Since 1850



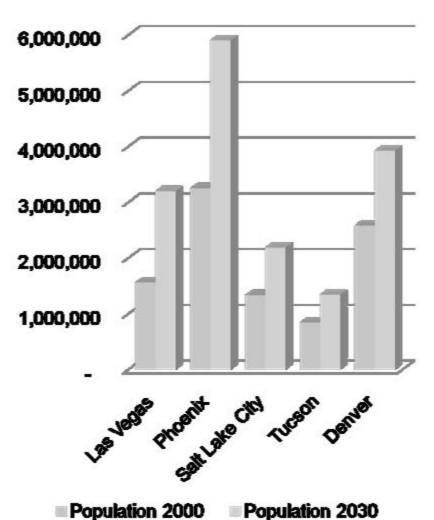
Source: State of Montana, The Demography of the Changing West, http://fwp.mt.gov/tmc/reports/demographics.html.

# Changing Land Use Patterns

#### Percent Housing Units Needed by 2030 Built After 2000

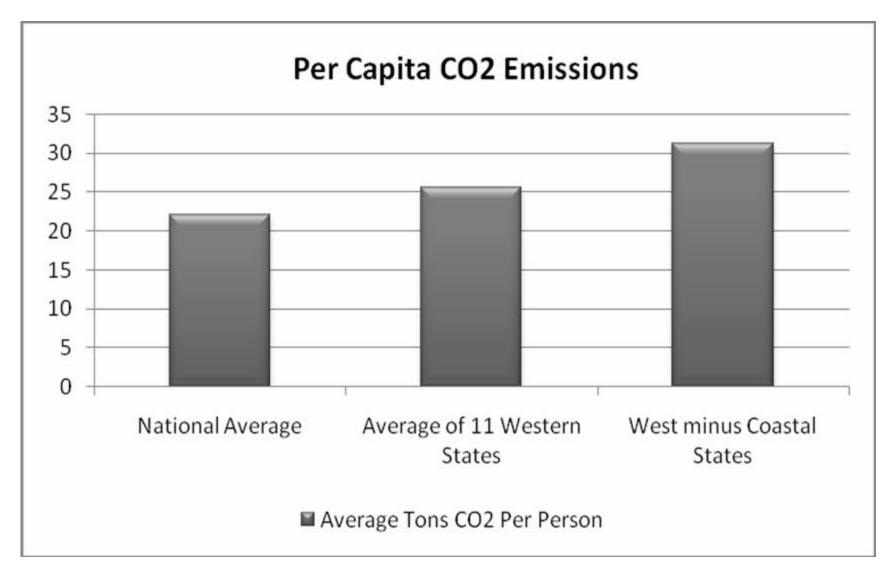


#### Population Growth in Western Cities, 2000 to 2030



		Percent
	New	Housing
	Housing	Units
	Units	Needed by
Metropolitan	Needed	2030 Built
Area	2000-2030	After 2000
Las Vegas	810,000	123.5%
Phoenix	1,336,000	100.4%
Salt Lake		
City	378,000	82.9%
-		
Tucson	286,000	77.9%
Denver	739,000	70.9%

Data source: Nelson 2004



Source: Derived from Climate Impacts Analysis Tools, World Resources Institute.

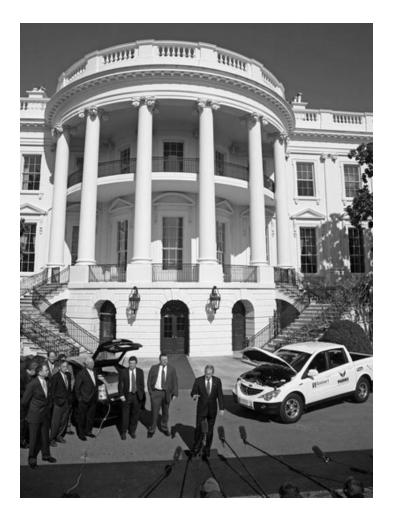
## What to do?





- MITIGATION slowing the growth in greenhouse gas emissions.
- ADAPTATION mitigating the impacts of unavoidable climate change

### Federal Policy on Climate Change



- Action awaits new President
- Cap and trade or tax?
- Green TEA?
- What will these policies mean for local land use planning?

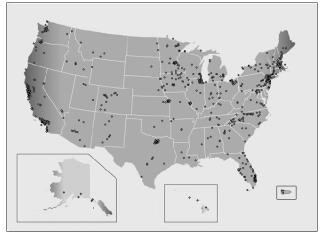
# State Policy on Climate Change



- Climate action plans
- Regional cap and trade targets
- Relationship to local land use planning?

## Local Government Policy on Climate Change





- US Conference of Mayors Climate Protection Agreement – 802 as of 2/29/08
- ICLEI Local Governments for Sustainability – more than 700
- APA climate change policy guide
- Still the "cutting edge"