Planning for Climate Change in the Interior West
Panelists

- Peter Pollock, FAICP
- Rebecca Carter, PhD
- Mark Ruzzin
- William R. Travis, PhD
Relative to 1971-2000

Scenario: A1b

Projected DJF Temperature Anomalies: 2046-2055

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

Scenario: A1b

Projected JJA Temperature Anomalies: 2046-2055

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

Kilometers
Relative to 1971-2000

Scenario: A1b

Projected DJF Precipitation Anomalies: 2046-2055

Drawn by JL Weiss
Data from Hoerling & Eischeid NOAA ESRL
Anomalies relative to 1971-2000
Relative to 1971-2000
Scenario: A1b

Projected JJA Precipitation Anomalies: 2046-2055

Drawn by JL Weiss
Data from Hoerling & Eischeid NOAA ESRL
Anomalies relative to 1971-2000
Drier
More insect infestations
More fires
Faster snow melt
More flooding
It’s not just the climate that’s changing in the Interior West!
The Changing Economy

Income Sources in the West, 1970-2005

- Services and Professional
- Non-Labor Sources (Investments, retirement, etc.)
- Government
- Manufacturing (incl. forest products)
- Construction
- Farm and Ag. Services
- Mining

Millions of 2005$
Employment Opportunities

Looking for a high-tech opportunity?

You could live here, in Silicon Valley....

Or here, in Paradise Valley....

Yes, you can live in beautiful Park County, Montana!
As the leader in online full-color printing services, PrintingForLess.com is growing fast. If you want to participate in creating a new niche within the $58 billion commercial printing industry, and you thrive in a fast-paced, entrepreneurial environment where every employee plays a critical role, then a career at PrintingForLess.com is for...
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

Changing Land Use Patterns

Percent Housing Units Needed by 2030
Built After 2000

- West: 66.2%
- Arizona: 95.3%
- California: 57.0%
- Colorado: 73.2%
- Idaho: 73.9%
- Montana: 54.9%
- Nevada: 111.7%
- New: 67.8%
- Oregon: 65.8%
- Utah: 91.5%
- Washi: 64.9%
- Wyoming: 43%

Data source: Nelson 2004
Population Growth in Western Cities, 2000 to 2030

<table>
<thead>
<tr>
<th>Metropolitan Area</th>
<th>New Housing Units Needed 2000-2030</th>
<th>Percent Housing Units Needed by 2030 Built After 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Las Vegas</td>
<td>810,000</td>
<td>123.5%</td>
</tr>
<tr>
<td>Phoenix</td>
<td>1,336,000</td>
<td>100.4%</td>
</tr>
<tr>
<td>Salt Lake City</td>
<td>378,000</td>
<td>82.9%</td>
</tr>
<tr>
<td>Tucson</td>
<td>286,000</td>
<td>77.9%</td>
</tr>
<tr>
<td>Denver</td>
<td>739,000</td>
<td>70.9%</td>
</tr>
</tbody>
</table>

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”