EXTENSIVE RIPARIAN STATUS AND TRENDS MONITORING PROGRAM - STREAM TEMPERATURE

Phase I: Westside Type F/S and Type Np Monitoring Project
EXTENSIVE RIPARIAN STATUS AND TRENDS
MONITORING PROGRAM – Stream Temperature

**Westside Type Np**
- Phase I - Baseline Status 2008-2009
- Phase II - Trend Monitoring-TBD

**Westside Type F/S**
- Phase I - Baseline Status 2008-2009
- Phase II - Trend Monitoring-TBD

**Eastside Type Np**
- Phase I - Baseline Status-TBD
- Phase II - Trend Monitoring-TBD

**Eastside Type F/S**
- Phase I - Baseline Status 2007-2008
- Phase II - Trend Monitoring-TBD
Extensive Monitoring

- Provides estimates of population (e.g., mean, percentiles).
  - Stream temperature
  - Shade
- Is not a direct evaluation of specific forest management activities.
# Results – Temperature and Shade

<table>
<thead>
<tr>
<th>Stream Type</th>
<th>Metric</th>
<th>25%-tile</th>
<th>Median</th>
<th>75%-tile</th>
</tr>
</thead>
<tbody>
<tr>
<td>F/S</td>
<td>Canopy closure</td>
<td>39%</td>
<td>78%</td>
<td>96%</td>
</tr>
<tr>
<td></td>
<td>7DADM</td>
<td>15.4 °C</td>
<td>18.1 °C</td>
<td>19.5 °C</td>
</tr>
<tr>
<td>Np</td>
<td>Canopy closure</td>
<td>73%</td>
<td>93%</td>
<td>98%</td>
</tr>
<tr>
<td></td>
<td>7DADM</td>
<td>13.2 °C</td>
<td>15.2 °C</td>
<td>16.5 °C</td>
</tr>
</tbody>
</table>
Other Variables

- Catchment area
- Catchment slope
- Elevation
- Distance to divide
- Bankfull width
- Wetted width
- Mean depth
- Thalweg depth
- Gradient
- Aspect
- Embeddedness, mid-channel
- Particle size
- Canopy closure
- Riparian vegetation
- Large woody debris
Future Direction

• Policy decided not to pursue trends over time.
  • High costs would preclude other important CMER studies.

• Chose to explore the use of remote sensing and extensive vegetation monitoring.
Questions?