Water Trends in Eugene, Oregon

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Background

- **me:**
  - BS Math, MS Geography
  - Transportation planning
  - GIS analyst
  - Regional planning, forecasting, and modeling
  - 3 years at EWEB

- **EWEB**
  - Water & Electric utility
  - ~60,000 water customers
  - 180,000 population
  - $38M budget (water)
Annual Water Production vs. SFR median lot size

Year

median SFR lot size

Thousand Gallons

lot size in sq feet

median SFR lot size
Annual Water Production vs. residential units built
Annual Water Production vs. number of jobs in service area

The graph illustrates the relationship between annual water production (in thousand gallons) and the number of jobs in the service area over time. The data shows a general trend of increasing water production and job numbers, with fluctuations over the years, particularly from the 1960s to the early 2000s. This suggests a correlation between job growth and increased water usage or demand in the service area.
Summer vs winter average daily flows in MGD (June through September and October through May) over the years from 1951 to 2011.
Estimated daily per capita gallons (vs. unemployment)
Historic metered vs. budgeted consumption

- Total finished water
- Metered Consumption
- Budgeted Consumption
Water Sales by class

Annual Water Sales (thousand gallons)

- Electric Utility
- Industrial Contract
- General Service
- Water Districts
- Residential
AMWA survey: typical residential consumption

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2012</th>
<th>percent reduction</th>
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<tbody>
<tr>
<td>all</td>
<td>6,716</td>
<td>6,233</td>
<td>7%</td>
</tr>
<tr>
<td>Western</td>
<td>10,700</td>
<td>8,976</td>
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<tr>
<td>EWEB</td>
<td>9,000</td>
<td>6,701</td>
<td>26%</td>
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2004 Water System Master Plan Forecasts vs. Actual

Water Demands (MGD) vs. Year

- Water Resources
- Facility
- Financial
- Linear trendline