Water Conservation at UT Austin

Rusty Osborne

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We *were* #1 consumer in Austin

**BUT NOT NOW!**
We *must* use less, or...

23 Million People in Texas now...
45 Million by 2045
UT *is* using less, thanks to conservation and efficiency

1980: 1 Billion GPY
2009: 772 Million GPY
In Spite of 65% Growth Since 1980

1980: +/- 10 Million Sq. Ft.
2009: +/- 16.5 Million Sq. Ft.
UT Water Recovery Program

Direct Reuse of “Free” Water to Cooling Towers
Ornamental Fountain Metering

Fountains Consume Only Slightly More Than 1% of Total Yearly Use
Turtle Ponds Retrofit Project
Chilled Water Conservation Program

Cut Make-Up Rate From 75 GPM to 35 GPM Between 1997 and 2010
Demand Side Energy Management and Conservation (DESEMC)

Saving 48 MGPY
Reclaimed Water (Reuse Water)

Replace Drinking Water with Non-Potable Where Possible
Biggest User-> Cooling Towers

Half of all use... 400 Million GPY
Results:
SUCCESS! WE ARE SAVING WATER!

UT Main Campus Water Consumption

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Consumption</th>
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</thead>
<tbody>
<tr>
<td>1980-81</td>
<td>1.2E+09</td>
</tr>
<tr>
<td>2005-06</td>
<td>1E+09</td>
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<tr>
<td>2006-07</td>
<td>8000000000</td>
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<tr>
<td>2007-08</td>
<td>4000000000</td>
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<tr>
<td>2008-09</td>
<td>1.2E+09</td>
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