CITY OF CONROE 2012 WATER CONSERVATION INITIATIVES
2011 Drought Forecast

U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid September - November 2011
Released August 18, 2011

KEY:
- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events such as individual storms cannot be accurately forecast more than a few days in advance. Use caution for applications such as crops that can be affected by such events.

“Ongoing” drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.
La Nina Impacts

Typical Wintertime Pattern

La Niña

Polar Jet Stream

High Pressure

Pacific Jet Stream

Wet

Cool

Dry

Wet

Warm

La Niña develops when stronger than normal trade winds push warm water farther west.

Enhanced upwelling mixes surface waters in the eastern Pacific cooler than normal.

www.weather.gov
The long term sustainable recharge of the aquifer is about 64,000 acre-ft a year.
City-wide Total Water Usage History

- FY 2007-2008 = 3,265,376,000 gallons
- FY 2008-2009 = 3,235,734,000 gallons
- FY 2009-2010 = 3,283,905,000 gallons
- FY 2010-2011 = 4,223,555,000 gallons*

- FY 2010-2011 – 939,718,000 more gallons of water pumped than 2009-2010

* Extreme Drought Conditions
We’ve been drawing down our aquifers faster than they can recharge.
City of Conroe New Stage 2 Watering Schedule

Two Day Watering ONLY

STAGE 2
MANDATORY
ODD/EVEN
WATER
RESTRICTIONS
TAKES EFFECT
JANUARY 2, 2012

RESIDENTIAL
ODD ADDRESS
RESIDENTIAL
EVEN ADDRESS
POA/HOA
COMMERCIAL,
MULTIFAMILY
ODD ADDRESS
POA/HOA
COMMERCIAL,
MULTIFAMILY
EVEN ADDRESS

AUTOMATIC IRRIGATION SYSTEMS AND
HOSE-END SPRINKLERS: 10:00 PM TO 4:00 AM

Saturday &
Wednesday
Sunday &
Thursday
Saturday &
Wednesday
Sunday &
Thursday

Violations are subject to additional surcharge on the water bill. First violation observed in any calendar year will result in a warning. Only one warning will be given per calendar year. Additional Violations will be subject to a surcharge on the water bill. 2nd violation $50, 3rd violation $100, 4th violation $200

REPORT VIOLATIONS TO: 936-522-3885
The W.I.S.E. Guy's - Water Irrigation System Evaluation Program

In Conroe, during the summer months approximately 50% of the irrigation water is wasted.

We all desire to have a nice green lawn and a beautiful landscape. A beautiful landscape will increase our property values. A healthy landscape will provide oxygen for us to breathe and cool the atmosphere around our homes. It has been proven that a nice landscape can help calm our nerves and sooth our souls. However, we use a lot of water to keep our landscapes alive. Statistics indicate that 80% of peak outdoor water use is consumed for irrigation. Unfortunately 50% of this water is wasted. Working for cities, water districts, municipal utility districts or any other water purveyor, the W.I.S.E. Guy's program sends trained licensed irrigation professionals to evaluate existing residential irrigation systems. These licensed irrigators evaluate each system for problems including sprinkler spacing, pressure at the nozzle, hydromanning, spraying onto impervious surfaces, sprinkler alignment and more. The key component of each evaluation is the assessment of the controller settings. Recommendations are made to the homeowner for improvements to the system and to the controller settings. Each homeowner receives their unique online evaluation indicating any issue concerning their system and educational information explaining what problems were found and how they may possibly be solved. In most cases, simply adjusting the system controller can save as much as 20% of the water waste. Repairing inadequacies in an existing irrigation system to improve the efficiency of the system can save even more water. An average residential system can save tens of thousands of gallons of water annually while maintaining healthy plant material.

When you moved into your home, you probably had your sprinkler system programmed to come on three times a week, first thing in the morning, week in, week out....all year long. Fact is, your lawn doesn't NEED that much water...and the peak early morning demand has become a serious problem in our community. In some areas, this problem is so serious that without voluntary action to curb this demand, there will not be enough water to go around. The City of Conroe is asking you to adopt a voluntary two day a week watering program – even house numbers water on Sundays and Thursdays, and odd house numbers water on Saturdays and Wednesdays. Watering times should be limited to the hours of 10:00pm to 4:00am. This will help you use water more efficiently and still maintain a terrific looking yard!

Sign up today for a Free irrigation system evaluation from a W.I.S.E. Guy's Licensed Irrigator by going to www.cityofconroe.org and clicking on the Water Conservation tab. Help reduce irrigation water waste and reduce your water bill!
<table>
<thead>
<tr>
<th>Watering Activity</th>
<th>Year Round</th>
<th>Stage 1</th>
<th>Stage 2</th>
<th>Stage 3</th>
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</thead>
<tbody>
<tr>
<td>Watering with a sprinkler or irrigation system.</td>
<td>Encouraged any day of the week from 10:00 p.m. to 4:00 a.m.</td>
<td>Voluntary implementation of odd/even address irrigation limits.</td>
<td>Stage 1 restrictions are now mandatory.</td>
<td>Irigation of landscape areas is absolutely prohibited.</td>
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<td></td>
<td>Landscape irrigation is discouraged from November 1 through April 30 of each year. Hand held hose should be used for watering during this time of year.</td>
<td>Odd # addresses ending in 1, 3, 5, 7 or 9 may operate landscape irrigation systems on Saturday and Wednesday from 10:00 p.m. to 4:00 a.m.</td>
<td>Any customer responsible for premises that use water supplied by the city in violation of stage 2 or stage 3 water use restrictions shall be subject to additional surcharge on the water bill.</td>
<td>First violation observed in any calendar year will result in a warning. Only one warning will be given per calendar year. Additional violations will be subject to a surcharge on the water bill.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Even number addresses ending in 0, 2, 4, 6, 8 or 0 may operate landscape irrigation systems on Sunday and Thursday from 10:00 p.m. to 4:00 a.m.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water to wash motor vehicle, motorbike, boat, trailer, airplane or other vehicle.</td>
<td>Allowed any day of the week.</td>
<td>Allowed any day of the week.</td>
<td>Allowed only between the hours of 10:00 p.m. and 4:00 a.m.</td>
<td>This activity is absolutely prohibited.</td>
</tr>
<tr>
<td>Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools or Jacuzzi-type pools.</td>
<td>Allowed any day of the week.</td>
<td>Allowed any day of the week.</td>
<td>Allowed only between the hours of 10:00 p.m. and 4:00 a.m.</td>
<td>This activity is absolutely prohibited.</td>
</tr>
<tr>
<td>Operation of any ornamental fountain or pond for aesthetics</td>
<td>Allowed any day of the week.</td>
<td>Allowed any day of the week.</td>
<td>Is prohibited except to support aquatic life.</td>
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</tr>
</tbody>
</table>

For the latest update to the Drought Contingency Plan, please go to www.cityofconroe.org.
City of Conroe
Mandatory Stage 2 Water Restrictions
Monday, January 2, 2012

The static level of several of the city’s water wells have dropped significantly from 2010 to 2011. The water usage for 2011 has been the highest on record, with the wells running 24/7 due to the extreme drought conditions the entire state of Texas is experiencing. The city council has authorized the City of Conroe to go into Stage 2 mandatory water restrictions. This will allow the wells to recover and minimize the significant static water drops that are currently being experienced.

Please review the Stage 2 mandatory water restrictions in the enclosed Landscape Watering Regulations brochure. This brochure highlights the recently revised Stage 2 mandatory water restrictions for the City of Conroe.

Contact: Chris Loomis
Water Conservation Manager
Email: waterconservation@cityofconroe.org

www.cityofconroe.org
Dear Resident,

On ______ a warning notification was left at your residence as a reminder that the City of Conroe's Drought Contingency Plan DCP is in stage ______ and an authorized city employee witnessed a violation of that ordinance. An authorized employee of the city of Conroe City just witnessed another violation at _______ on _______ at ________ which constitutes a _________ violation of the City of Conroe's Drought Contingency Plan DCP. According to the City of Conroe's DCP, the use of a sprinkler for landscape watering is two days per week between the hours of 10:00 p.m. and 4:00 a.m. during a stage 2 alert. Please refer to the DCP brochure for the days of the week you are to water. If you have an automatic sprinkler system, you may want to check to make sure it is set for the correct time and days of the week. This notification is to alert you to this fact and to inform you that a $________ surcharge is being assessed to your utility bill.

Please be aware that the ordinance provides for progressive, punitive surcharges for violations of the ordinance as follows:

- Second violation in any 12 month period $50.00
- Third violation in any 12 month period $100.00
- Fourth violation in any 12 month period $200.00

I am including a brochure concerning the City of Conroe's DCP that provides helpful information regarding sprinkler use and watering restrictions. You can go to the City of Conroe website www.cityofconroe.org and click on the water conservation tab to learn about the latest watering restrictions.

Any person who violates the watering restriction provisions of the City of Conroe's Drought Contingency Plan DCP and receives a surcharge on their water bill shall have ten (10) days from receipt of the violation to seek an appeal in writing. The person receiving the violation must request a hearing to show proof why the surcharge should not be levied. The appeal should be sent to the City Administrator at 300 W. Davis, P.O. Box 3066, Conroe, TX 77305.

If you have any questions, please feel free to call 936-532-3885.

Sincerely,

Public Works Director

Violation Type:
- Watering on non-watering day
- Watering outside of water hours
- Water Waste
- Water Leak
- Miscellaneous
CITY OF CONROE 140 GPCD GOAL
AVERAGE PER CAPITA DEMANDS

GALLONS PER CAPITA PER DAY (GPCD)

260 GPCD
FOR 2011

222 GPCD
GOAL FOR 2012

202 GPCD
GOAL FOR 2013

140 GPCD GOAL

GPCD CALCULATION: TOTAL WATER USAGE DIVIDED BY TOTAL SERVICE POPULATION
STAGE 2
MANDATORY ODD/EVEN WATER RESTRICTIONS
Questions?