

Permit holders in Level IV counties reduced water use in May 2008 by 28.53% when compared to May 2007

Background

On October 23, 2007, Governor Perdue directed the Georgia Environmental Protection Division (EPD) to modify surface and ground water withdrawal/production permits to achieve a 10 percent reduction in usage for water use permit holders the subject to Level 4 drought response. Beginning November 1, 2007, these permit holders were required to reduce water production and non-municipal/non-agricultural water withdrawal by 10 percent compared to usage of the last winter season (beginning of December 2006 through end of March 2007). This requirement expired March 31, 2008 and was not extended because EPD determined that during the spring and summer months the Level 4 outdoor water use restrictions would result in water use reductions exceeding 10%.

Continued Monitoring of Water Use

Although the 10% reduction requirement is no longer in effect, EPD is continuing to monitor water usage to assess the effectiveness of the Level IV outdoor water use restrictions and other conservation efforts. Therefore, EPD is requiring 168 permittees in the current 55-county Level IV drought area that use more than 100,000 gallons per day to continue reporting their water use on a monthly basis. Overall, these permittees account for 98% of all water use in the 55-county Level IV drought area, almost exclusively from surface water.

Critical Infrastructure Considerations

Opportunities to reduce water consumption by power producing utilities are related to the demand for electricity. Consequently, water conservation by electric producing utility plants is constrained by the need to support energy demands. These can be reduced to the extent that Georgians work to reduce energy demand. Additionally, the power grid is designed to have certain plants operating almost continuously to provide the base load for electrical needs. The 7 power producing utility plants are considered separately from the data described below.

May 2007 versus 2008 Water Use Comparison

May 2008 water use by permittees using more than 100,000 gallons per day decreased by 28.5% or 255.32 million gallons per day when compared to May 2007. Of the 168 permittees who reported using at least 100,000 gallons per day in May 2007, 158 decreased and only 10 increased water use when compared to May 2008. 12 permittees failed to report water use data for May 2008. Table 1 provides a summary of these reductions by river basin.

Table 1
Summary of May 2007 versus May 2008 Level IV Water Use Reductions by Basin (MGD)

BASIN	MAY 2007 WATER USE (MGD)	MAY 2008 WATER USE (MGD)	REDUCTION IN USE FROM MAY 2007 (MGD)	% REDUCTION IN USE FROM MAY 2007
Chattahoochee and Flint	531.99	377.81	154.18	28.98%
Coosa, Tallapoosa and Tennessee	233.23	166.22	67.00	28.73%
Savannah, Oconee and Ocmulgee	129.66	95.52	34.14	26.33%
All Basins	894.87	639.56	255.32	28.53%

This significant reduction in water use is attributable to the outstanding conservation efforts by Georgia's citizens and the continuation of Level IV outdoor watering restrictions.