

Washington County Water Conservancy District

Water Line™ Fall 2010

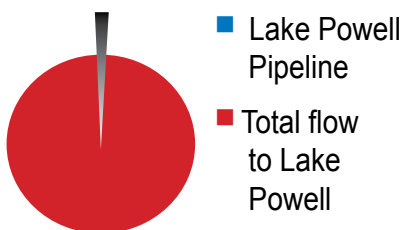
Sand Hollow Reservoir

Water for Today and Tomorrow™

Facts

- There is 60 million acre feet of water storage on the Colorado River system.
- Historical records show an average annual inflow of 12 million acre feet into Lake Powell.
- The Lake Powell Pipeline will withdraw 100,000 acre feet of water.
- Or $100,000/12,000,000 = 0.008$
- The Lake Powell Pipeline withdraw is equal to 0.8 percent of the annual inflow to Lake Powell. The graph below illustrates the amount of water withdrawn by the Lake Powell Pipeline.

Water Quantity (acre-feet)



Today's plans meet tomorrow's demands

Each year, the District continues to focus on making sure that water is available in Washington County for current and future residents. 2010 was no different.

Over the past year, the District has pursued several projects:

- The Wet Sandy Project was completed with the piping of the old Wet Sandy ditch. This project could ultimately augment water supply for the Ash Creek Project.

- Construction began on a 10-million gallon water reservoir storage tank at the Quail Creek Water Treatment Plant. This tank, along with existing storage capacity, will allow the District to store half of the daily production of the Plant and will cut down considerably on operational challenges to meet water demand. The tank should be completed early in 2011.



Update from the
Board of Trustees
by Ed Bowler, Chair



Wet Sandy desilting structure
Photo courtesy of Ann Jensen

- Core drilling was completed on the Warner Valley Reservoir Project.

This reservoir will store up to 45,000 acre feet of secondary water and will allow the District to manage water more efficiently, save water that is now being lost and improve water quality.

(Continued on pages 2 and 3)

- Studies continue for the environmental work on the Lake Powell Pipeline and were expanded to include power studies by Page and Garkane Power.
- A report was finalized and published in 2010 explaining efforts made by District staff to optimize operations at the Quail Creek Water Treatment Plant, reduce energy use and cut down on costs. Operational costs were lowered from over \$160,000 in 2007 down to \$140,000 in 2008 to \$110,000 in 2009. The report was published in Carollo Engineering's Summer 2010 Special Edition of *Research Solutions*. District staff has presented this report to the District's Board, Intermountain Section of the American Water Works Association and the Washington County Commission.



Colorado River between Glen Canyon Dam and Lee's Ferry
Photo courtesy of Corey Cram



Sediment removal project at Gunlock Reservoir
Photo courtesy of Corey Cram

Additional cost savings are expected in 2010.

- Over 400,000 cubic yards of sediment was dredged from Gunlock Reservoir. Removing sediment today in order to maintain storage capacity is much more cost-effective than creating new storage facilities on the Santa Clara River in the future.
- Plans for the Red Hills Desert Garden and Reserve continue to move ahead.

Several parties have partnered on this project including the District, City of St. George, Virgin River Program and Red Cliffs Desert Reserve. A proposal was submitted to obtain a \$1,000,000 grant for the project.

The District continues its outreach to the public with free landscaping workshops, a Water Fair that reaches 2,000 fourth-graders and publications and presentations to local organizations, agencies and municipalities.

The map below will give you a bird's eye view of all the District's projects including pipelines, reservoirs, wells, culinary and secondary water systems and treatment facilities.

The projects range from Quail Creek Reservoir completed in 1985 to future projects such as the Ash Creek/Anderson Junction Reservoir, Warner Valley Reservoir

Project and the Lake Powell Pipeline.

The District's projects must be varied so that water supplies continue to be available to residents even under adverse natural conditions such as drought, floods and earthquakes. Should technical problems occur, such as extended power outages, it is imperative that water quality and/or water production not be compromised.

It is also vital that we keep working to improve the reliability of our water supply. While there is enough water to meet demand today, the District must continue to

be prepared to meet water demand in the future.

During times of slow growth and low demand, the District utilizes its time in various ways:

- working to improve efficiency
- constructing smaller projects that have smaller budgets
- completing studies to help us manage water better in the future
- finalizing project designs so that we can move ahead when money is available and need is present
- preparing for construction of large-scale, long-term projects such as the Warner Valley Reservoir and the Lake Powell Pipeline.

I would like to take this opportunity

to thank our Board members for the time they dedicate to becoming educated on water issues and the thought they give to water needs in Washington County.

I would also like to thank District staff for all the work they do each day to make sure we continue to have water flowing into our homes and businesses and on to our landscapes.

Ed Bowler is from Gunlock and St. George. He is a local businessman and rancher. Mr. Bowler has served on the District's Board since April 1998. He became Chairman of the Board in January 2009.



Conservation Corner

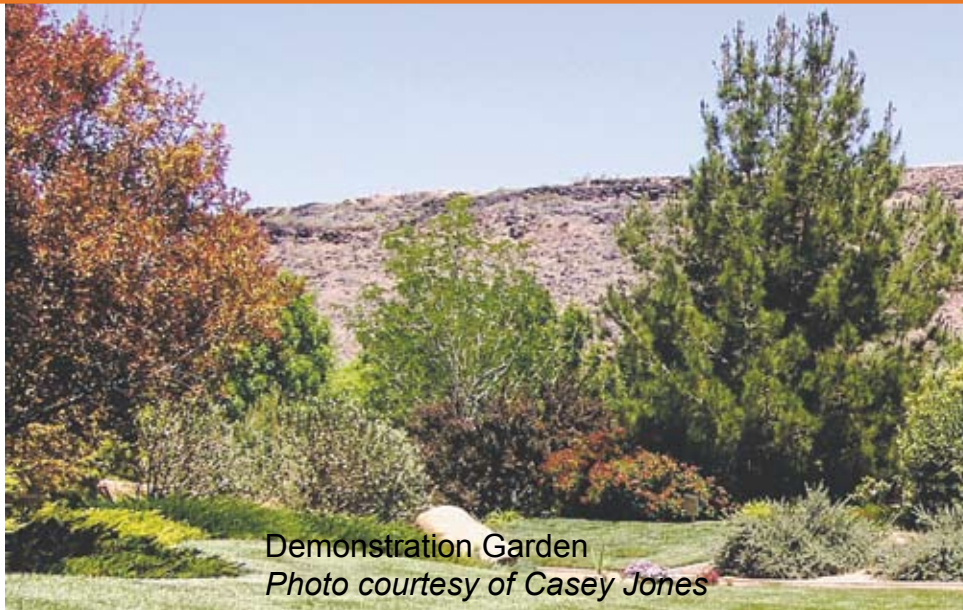
By Julie Breckenridge — Water Conservation Coordinator

Fall into planting

By Casey Jones,
Horticulturist

Fall is the best time to plant just about anything, especially trees. A tree planted now will have time to settle into the ground and establish its roots without having to deal with leaf growth. The tree will not suffer from the stress of heat.

Fall is also a good time to plant grass. If seed is planted in October, your lawn will be beautiful after just one year.



Demonstration Garden
Photo courtesy of Casey Jones



Water Line™ Fall 2010

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<http://wcwcd.state.ut.us>

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Board Meetings—7:00 p.m.

Tuesday - January 18

Tuesday - February 15

Tuesday - March 15

Check the District Web page for any change in dates and time.

Does your child know the value of water conservation?

Preparing our children to live in a world of sometimes harsh realities covers a lot of ground. Be sure one thing you instill in them is an appreciation for our natural resources, especially water. If children grow up in a home with a water conservation ethic, they will become adults who will adhere to and pass on to their children a conservation ethic.

Talk to your children about saving water both at home and at school and then follow up by asking them what they did today to save water.

The District has conservation workbooks that can be used to teach children about conservation. These materials are free and available at the District office during normal business hours Monday through Friday from 8:00 a.m. to 5:00 p.m.

Public comment requested

The District's Water Conservation Plan is currently in the process of being updated. The public is invited to attend the Board of Trustees meeting on February 15, 2011 at 7:00 p.m. During this time, the public will have the opportunity to

voice their comments on the plan. Early in 2011, the updated plan will be available in hard copy and may be picked up at the District's office. A digital copy will be available on the District's Web page at <http://wcwcd.state.ut.us>.

Free landscape workshops starting again

JANUARY

Saturday 22 (10-11:30 a.m.)

Landscape Design

Wednesday 26 (3:30-5:00 p.m.)

Landscape Design

FEBRUARY

Saturday 19 (10-11:30 a.m.)

Efficient Irrigation Design

Wednesday 23 (4-5:00 p.m.)

Spring into Veggie
Gardening

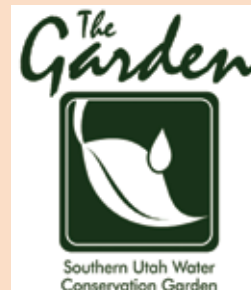
Saturday 26 (10-11:30 a.m.)

Spring into Veggie
Gardening

MARCH

Saturday 19 (10-11 a.m.)

Backyard Conservation



All workshops are held at
Tonaquint Nature Center
1851 Dixie Drive.
Space is limited so please
call 673-3617
to reserve your spot.