

# TVWD's Current Water Supplies



The Tualatin Valley Water District (TVWD) is located in suburban Washington County, west of Portland. We are governed by a five-member Board of Commissioners, elected to four-year terms by District voters. The Board of Commissioners, with help from our staff, sets our policies and procedures. We serve more than 197,000 customers in 45 square miles that includes portions of the Cities of Beaverton, Hillsboro and Tigard, and unincorporated Washington County. We supply an average of 23 million gallons of water per day, 8-9 billion gallons per year.

TVWD receives water from the Portland Water Bureau and the Joint Water Commission (JWC). During the 2007 fiscal year, water from the Portland Water Bureau accounted for 53.5% of TVWD's water supply, costing \$5.5 million. JWC water accounted for 46.5% of TVWD water, costing \$1.6 million.

As part of regular water supplies planning, TVWD is exploring options to meet future water demands. A variety of factors will cause TVWD to need more water than we currently have access to, and the Portland Water Bureau and JWC currently do not supply TVWD enough water to meet future expected water demands.

## JWC At A Glance

The JWC is comprised of water from Hagg Lake (Scoggins Reservoir) and the Barney Reservoir released into the upper portion of the Tualatin River. When flows are available, water from the Tualatin River is used. It is then withdrawn and filtered through the JWC water treatment plant. Chlorine and pH adjustments are added before leaving the plant.

### GENERAL

- o Jointly owned by TVWD and the Cities of Hillsboro, Beaverton, Forest Grove and Tigard
- o Rainwater is the primary source

### WATER TREATMENT AND TRANSMISSION

- o The JWC Water Treatment Plant produces 75 MGD, of which TVWD owns 10 MGD treatment capacity.
- o To distribute its water, the JWC owns a pumping plant and 42" and 72" transmission mains.

### HISTORY

- o Created in 1976 as an intergovernmental agreement between the Cities of Hillsboro and Forest Grove
- o TVWD joined in 1994

## Portland Water Bureau At A Glance

Water from the Portland Water Bureau primarily comes from the Bull Run watershed and is piped to a 50-million gallon storage reservoir on Powell Butte, located on the east side of Portland. Currently, chlorine and ammonia are added to the water to disinfect it to meet federal drinking water standards. It is also adjusted for pH to make the water less corrosive to pipes. The Portland Water Bureau also uses the Columbia South Shore Wellfield to augment the Bull Run supply. Drawn from 25 wells and four aquifers, it is capable of producing close to 100 million gallons per day (MGD).

### GENERAL

- o Owned by the Portland Water Bureau
- o Rainwater is the primary source of water for the Bull Run portion

### WATER TRANSMISSION

- o Water from Portland is transmitted through a conduit from the source by gravity to the District
- o Water is provided to the District through the Washington County Supply Line. TVWD owns 42.3 MGD capacity.

### HISTORY

- o Bull Run was first used in Portland in 1895 and first used by TVWD in 1938. The Metzger area first used the Bull Run in 1924.
- o The Columbia South Shore Wellfield was first used in 1985.
- o In July 2006, TVWD and the Portland Water Bureau entered into an agreement for the Bureau to supply water to TVWD.