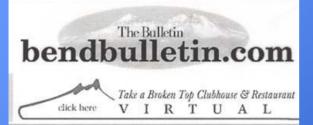
# Overview of OWRD Management Activities

Dealing with Water Supply Issues in Oregon Considering New Uses and Managing Existing Uses

Presentation by: Barry Norris, Administrator

**Technical Services Division** 

Oregon Water Resources Department



## Water key ingredient in growth recipe

Published: October 7, 2000

Increasing need will be reflected

in consumers' bills

By Jim Witty

The Bulletin

More than any other commodity, water fueled th development of Central Oregon.

Racing clear and cold from the Cascades through the heart of the Deschutes Basi or burbling up from underground, H2O turned t desert green and allowed farmers to settle a region.

Water still holds the key to

There will be a price tag for water consumers will spring

"More than a other commodity, water Fueled the development of Central Oregon."

Water flow: Bend Assistant City Manager

"Water, always the essential ingredient in the recipe for development, has become even more precious."

Stream. Dean Guernsey
The Bulletin

"Water still holds the key to growth."

A diverse group of farmers, utility operators, municipalities, government agencies and environmentalists have come up with a strategy that could increase flows in the vulnerable middle stretch of the Deschutes — roughly from Bend to Lake Billy Chinook — by as much as 100 percent during drought years and help protect trout

No water = No growth

### Public Water

Oregon's water resources are managed by the Oregon Water Resources Department.



"All the surface and ground water of the state..."

# Self Regulation



"Whiskey's for Drinkin' - Water's for Fightin'

- Mark Twain

### Introduction to Water Law

"Public water"

all surface and ground water of the state

Doctorine of prior appropriation

adjudications sort out pre~1909 water rights

1909 water code four basic provisions

The water rights system applications, permits, certificates



a system for allocating and using water

Regional Offices

Water distribution and regulation

Well inspections

Ground water studies

Streamflow measurement

Outreach and information

Dam safety inspections

Water right transfers

Technical assistance



five regions, twenty districts

# Historic Yearly Regulation



- Neil Creek − 1854 priority

- ▶ Miscellaneous Complaints
- Instream

### Water Availability in Oregon

A basis for allocations of water

# Surface Water Availability Basins in Oregon



# Surface Water Availability Calculation

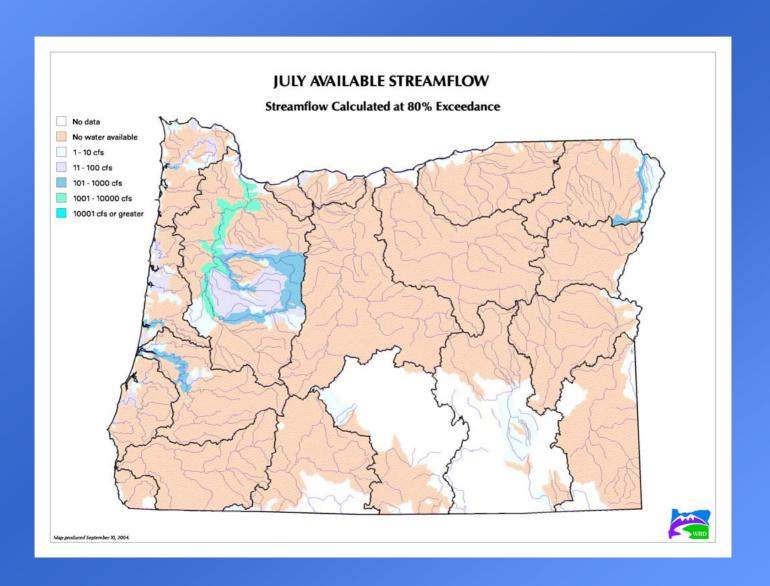
Water Available =

Natural Stream flow – Expected Demands

#### Where:

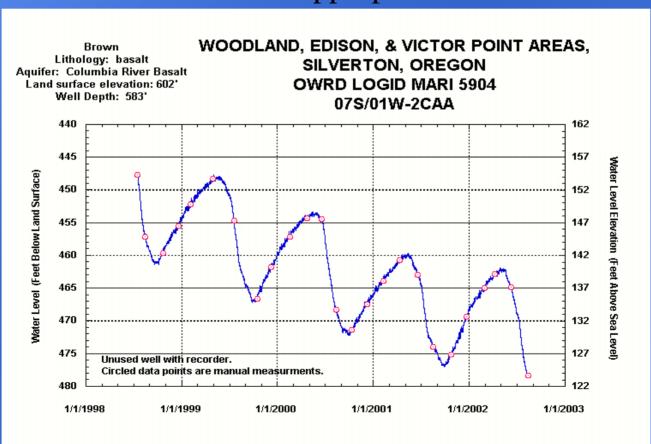
natural stream flow = 80% exceedance natural stream flow expected demands = consumptive use + in-stream water rights

#### Fully Appropriated System



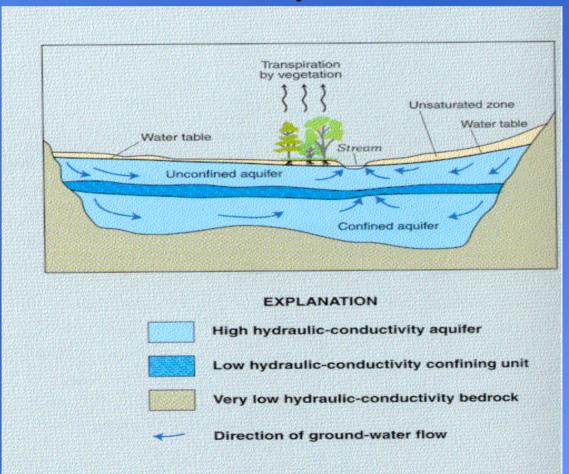
## Ground Water Availability

#### Is it over appropriated?



# Conjunctive Management

1) Confinement and Hydraulic Connection



# Ground Water Management Options

- Withdrawal of Unappropriated Water
- Classification of Waters
- Serious Water Management Problem Area
- Regulation for Substantial Interference
- Critical Ground Water Area

# Management Objectives

- Protect Existing Uses
- Restore Diminished Flows
- Provide For New Water Supply

#### Oregon Supply Issues

#### Future Options

- ✓ Storage structural and non structural
- ✓ Conservation
- ✓ Water Banks
- ✓ Public Information
- ✓ Expand knowledge of ground water
- ✓ Expand knowledge of surface water/ground water connection
- ✓ Improve forecasting and other management techniques
- ✓ Continue looking for cooperative effort opportunities

# Legislative Proposal - 2007

- Future Water Needs
- Conservation Opportunities
- Surface Water Storage Projects
- Ground Water Storage Potential
- Basin Yield Estimates
- Match Funding for local water supply planning

