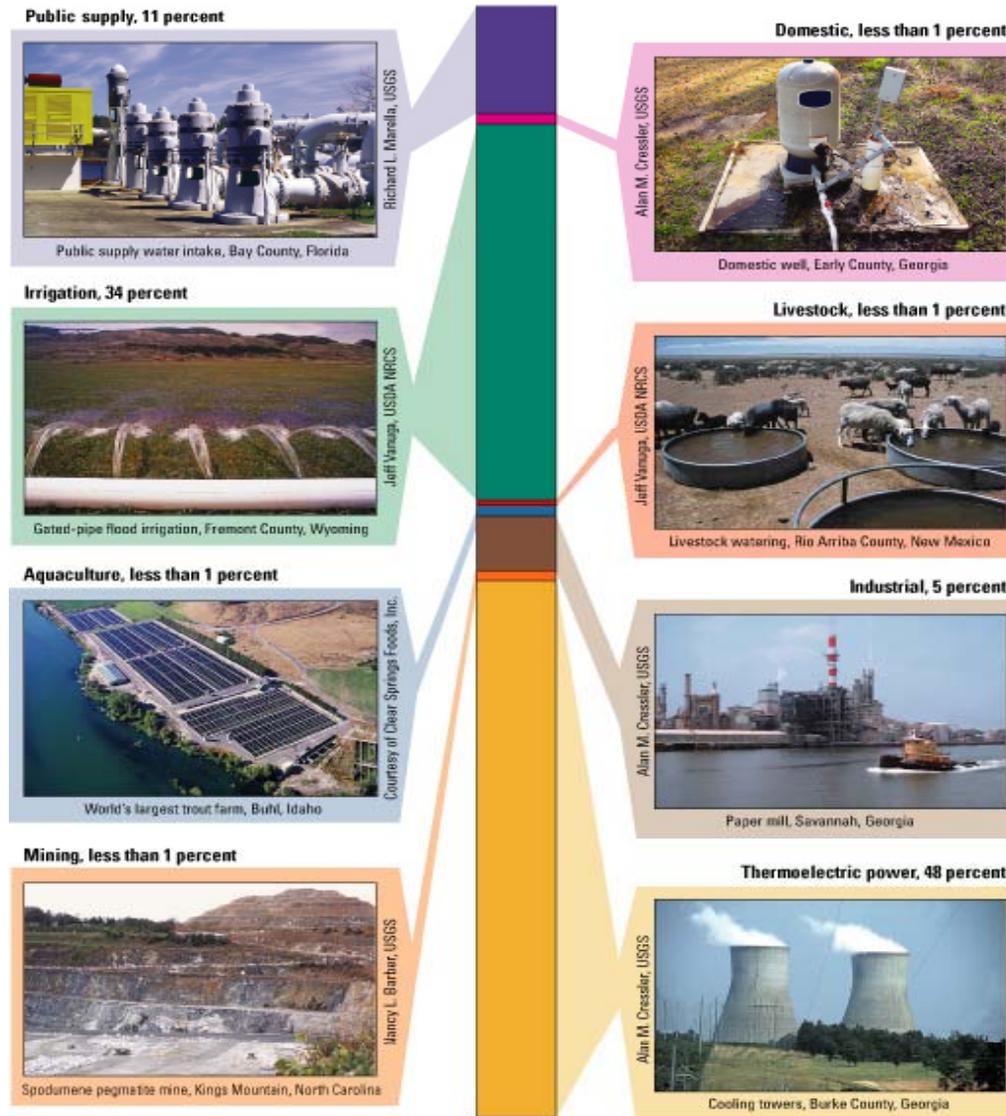


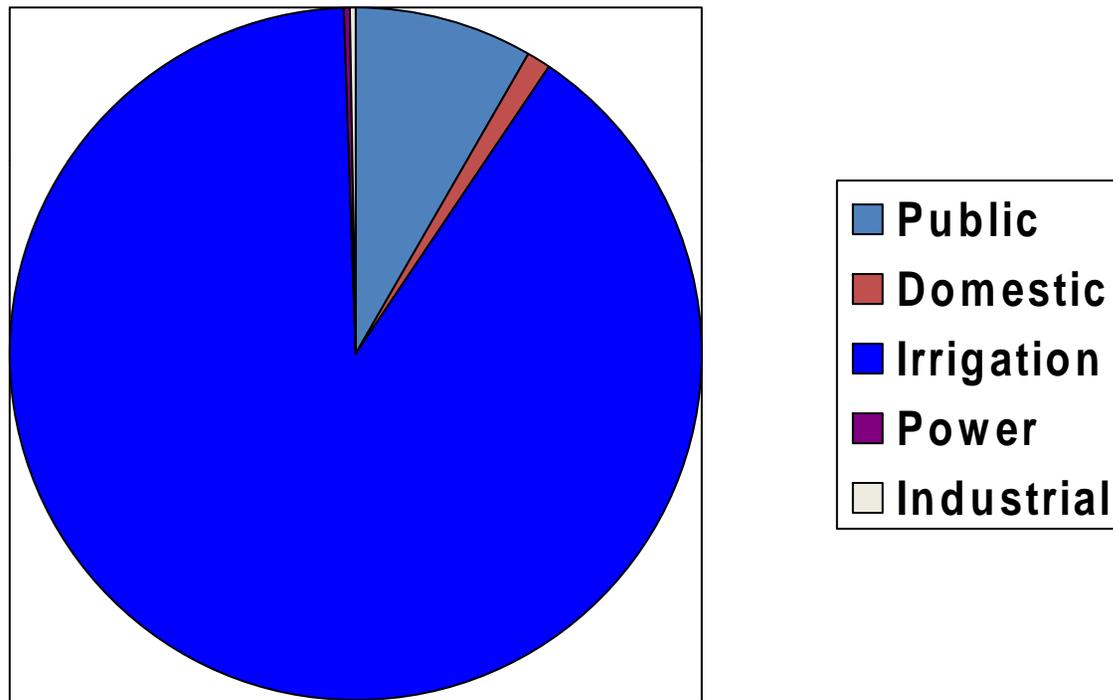


Water Use by Category in the United States



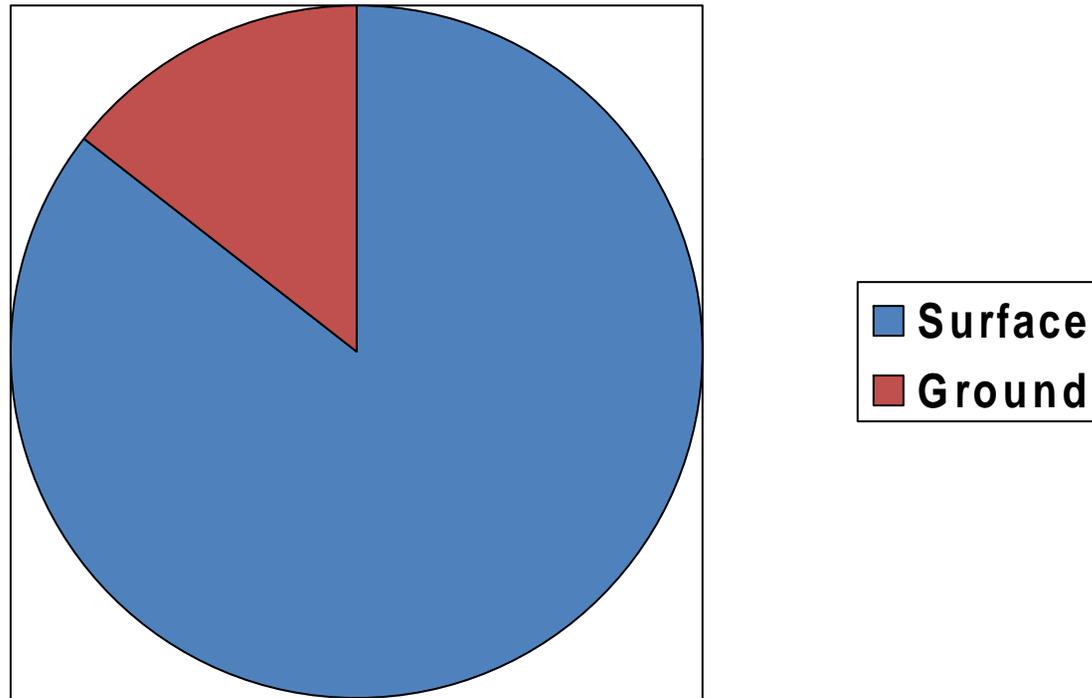
Information supplied from the USGS Circular 1268

Total Water Use in Oregon By Category



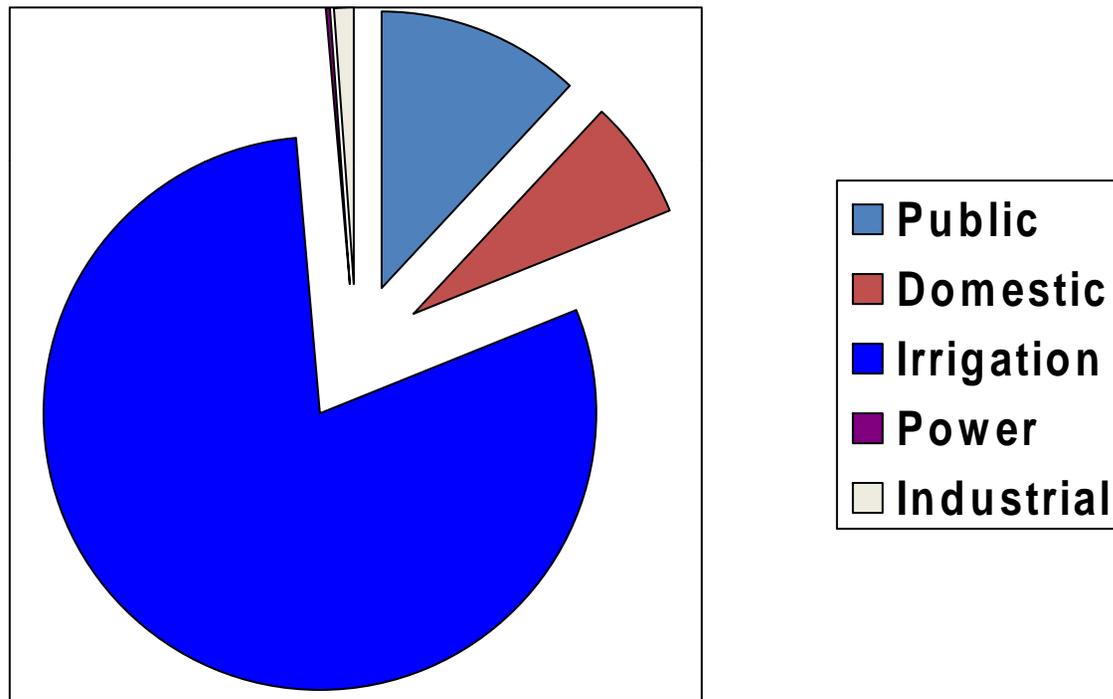
Figures compiled from the USGS

Total Water Use in Oregon



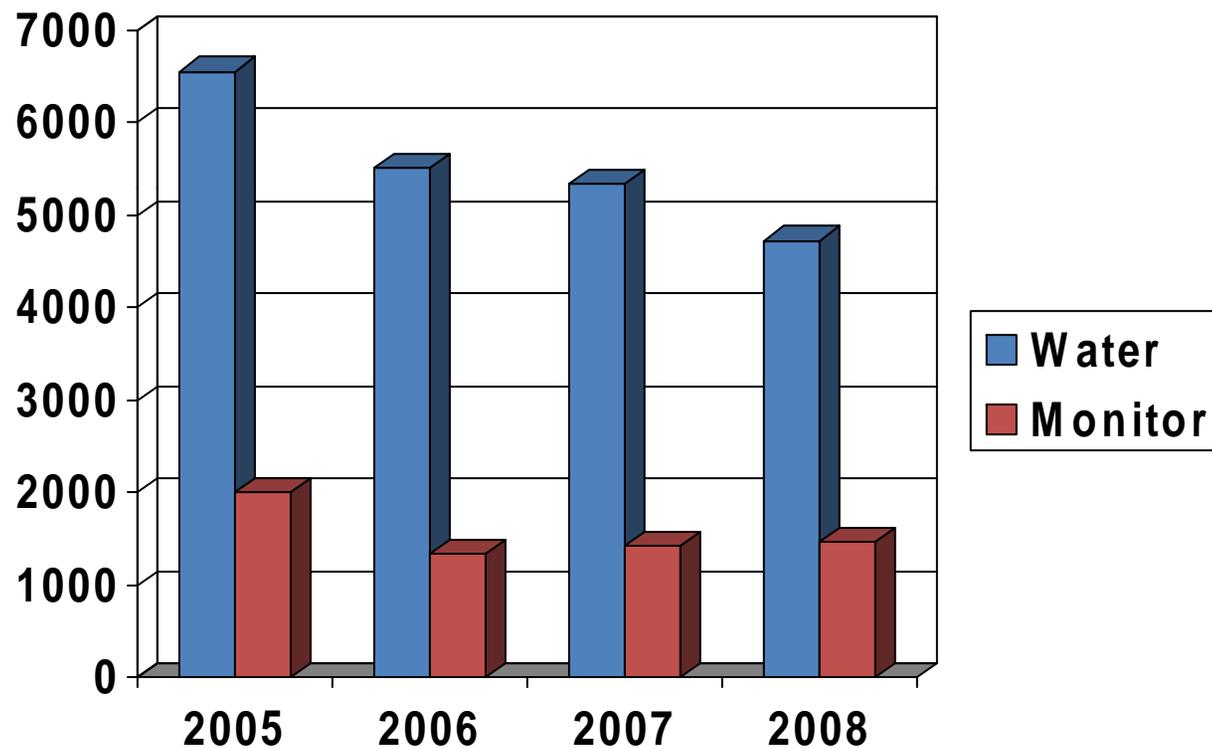
Use figures taken from USGS

Ground Water Use in Oregon



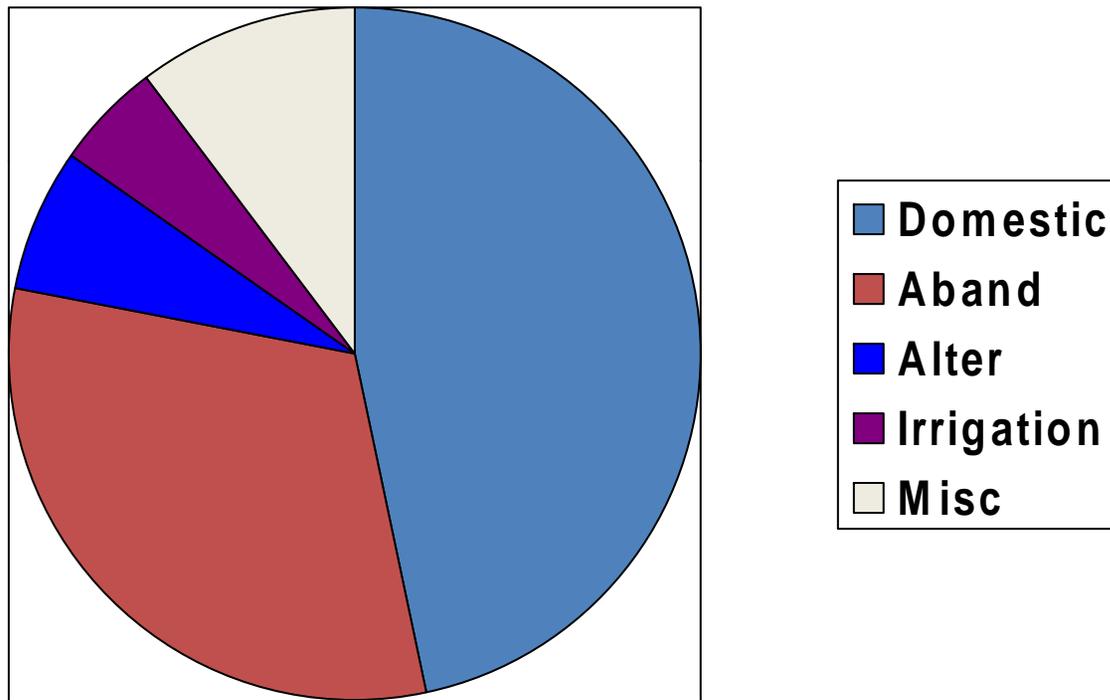
Information Taken from USGS, March 2004 report on 2000 water use

Water Wells Reports filed in Oregon



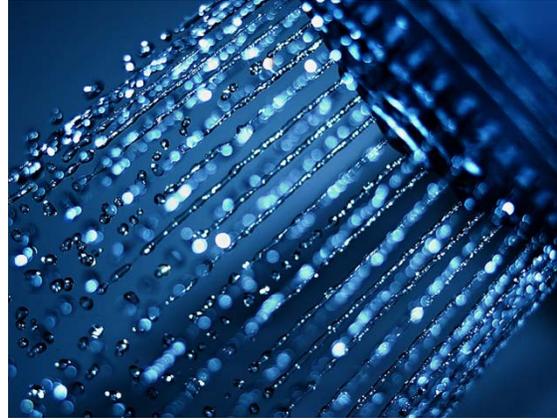
Information supplied by the Oregon Water Resources Department's Well Log Database

Wells Logs Filed in Marion County 2008



44% of Logs filed in Marion County represent new Domestic wells

Exempt Groundwater Uses



- Single or group domestic uses up to 15000 gallons per day (GPD).
- Use on up to half acre of non-commercial lawn and garden.
- Commercial uses up to 5000 GPD.

Oregon Revised Statutes

- **ORS 537.525 Policy.** The Legislative Assembly recognizes, declares and finds that the right to a reasonable control of all water within this state from all sources of water supply belongs to the public, and that in order to assure the preservation of the public welfare, safety and health it is necessary that:
 -
 - **(3) Beneficial use without waste,** within the capacity of available sources, be the basis, measure and extent of the right to appropriate ground water.

Use Comparison of Water for Residential Use

- Urban

(Per residence per day)

***280 gallons / day**

- Rural

(Based on 3.5 persons / household)

***310 gallons / day**

*Figures taken from the Portland Water Bureau, City of Hillsboro, TVWD and AWWA.

*Based on figures from USGS, OAWU, and rural water suppliers....ie Luckiamute Water Cooperative

Cost Comparison of Water for Residential Use

- Urban User
 - \$30. per month
 - \$360 per year
 - Total for 10 years use
\$5,200 *
- Rural User
 - \$10,000 Av. Drilling Cost
 - \$4,000 Av. Pump, etc.
 - \$ 300 per yr Operation
 - Total for 10 years use
\$17,000*

*Total figure is adjusted for
inflation

*Figure does not include
repair or replacement
costs.



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It takes 4 to 6 measurements per year over a period of at least 5 years to obtain useful data on water level trends.

You don't need to measure your own well to obtain information about groundwater levels in your area. The Oregon Water Resources Department manages a number of observation wells throughout Oregon. These wells are monitored frequently and provide valuable information for people living in the surrounding area on seasonal fluctuations and long-term trends. The location of these wells, along with long-term trends in water levels are available at http://www.wrd.state.or.us/OWRD/GW/well_data.shtml.

If you are interested in taking your own water depth measurements....

- Make sure to use approved sanitary procedures to prevent bacteria or other surface contaminants from entering the system.
- Measure the static water level, rather than the pumping or recovering water level by letting your well rest for several hours before measuring. *Pumping and recovering water levels do not reflect the water level of the surrounding aquifer, and should not be used as indicators of whether a well is going dry.*
 - Static water level:** the water level in the aquifer from which you are pumping, measured after the well has rested for several hours (so as not to measure the pumping or recovering water level)
 - Pumping water level:** the water level in the well during drawdown. Pumping causes the formation of a cone of depression. This drawdown always exceeds the drawdown in the surrounding aquifer.
 - Recovering water level:** the water level after pumping has stopped, but before the well has fully returned to the static water level.
- Use an electric depth gauge.** This is the easiest, and most common method to measure your well's static water level. This equipment typically consists of two wires with an electronic sensor that indicates when, and at what depth, the tape has hit water. The tapes can be purchased or constructed. For tips see the OSU online publication [Measuring Well Water Depth](#). (requires PDF)

For more complete information go to <http://wellwater.oregonstate.edu/measuringwells>

Well Location

3.00S1.00W15CAC

Oregon Water Resources Department Well Log ID

CLAC 8184

Oregon Water Resources Department State Observation Well Number

39

Well depth, in feet below land surface

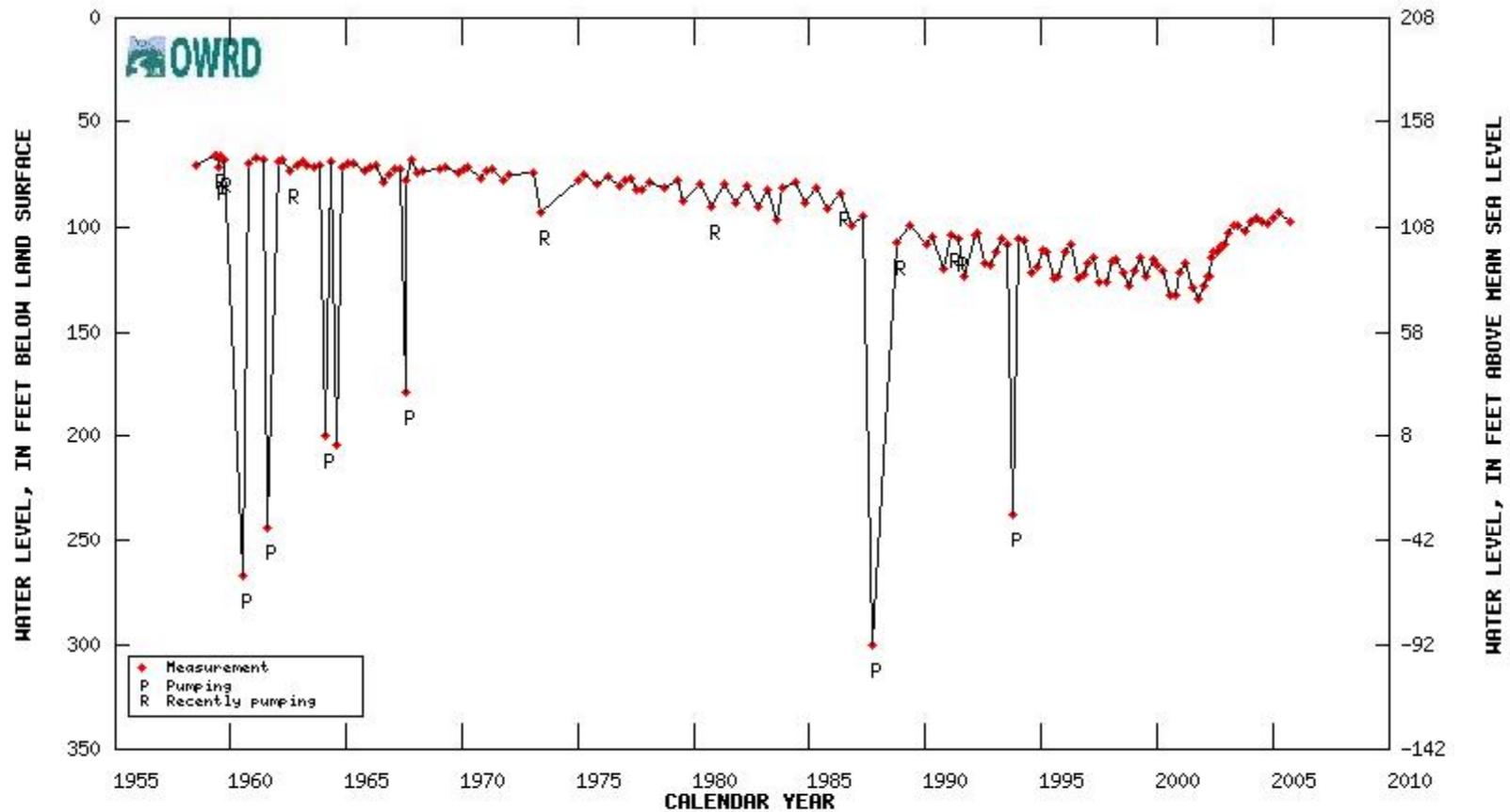
920

Land surface elevation, in feet above mean sea level

208

Primary use of well

ABANDONED



Focus issues for Ground Water

1. Fees on Exempt users
2. ASR Projects including sustainability
3. Moving surface water permits to ground water
4. Closed loop heat exchangers
5. Water treatment