

# 2009 Annual Water Use and Withdrawal Report



# City of Prescott Water Resources

- Groundwater Pumped
- Surface Water Recharged and Recovered
- Effluent Produced
  - Recharge and Recovery
  - Direct Delivery



# 2009 Water Production and Recharge

7,087 AF pumped from the Chino Wells

1,615 AF recharged from Watson and Willow Lakes

2,430 AF recharged from the WWTPs (reclaimed supply)

**3,042 AF = Net withdrawal from the aquifer**

1 AF (acre-foot) = 325,851 gallons

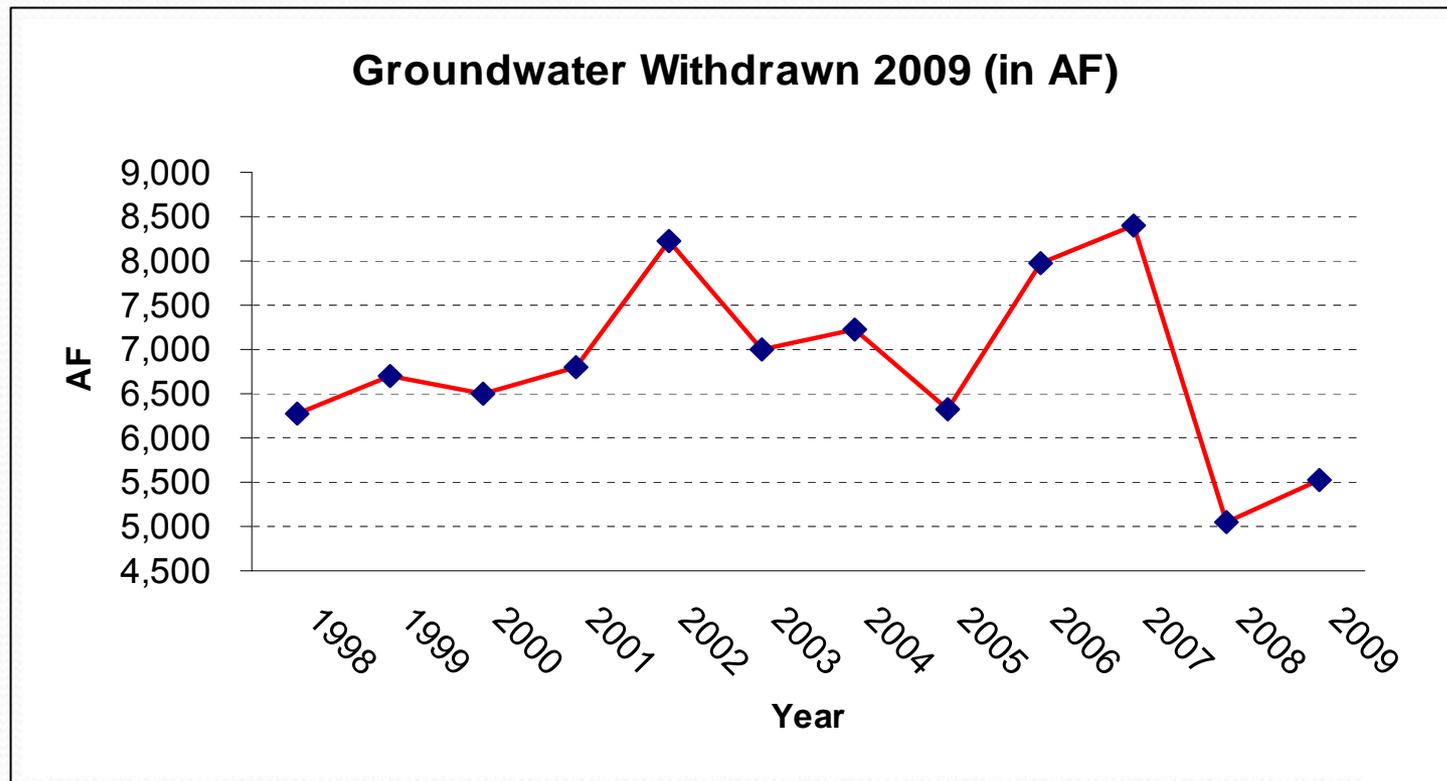
# Three-Year Comparison

	2009	2008	2007
Pumped from Chino Wells	7,087	7,374	8,398
Recharged from Lakes	1,615	2,436	No surface water recharge (dry conditions)
Recharged Treatment Plants Effluent	2,430	2,990	2,321
Net aquifer withdrawal	3,042	1,948	6,077

Quantities in AF (acre-feet)

# Groundwater Withdrawn (GW)

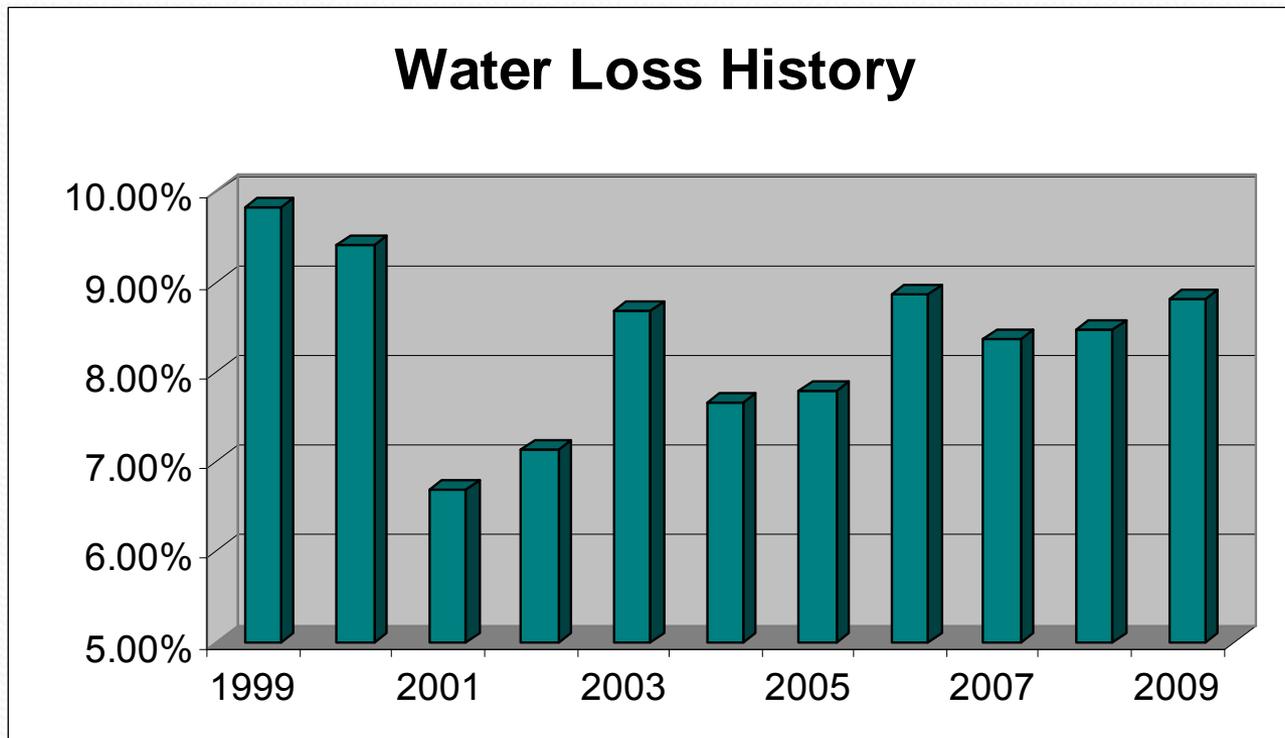
GW 2009 = (Total Pumped) – (Surface Water Recharged) = 5,517 AF



# Water Loss<sup>(1)</sup>

2009 Water Loss 8.82%

11 Year Average 8.33%



(1) ADWR Requirement  $\leq 10\%$

# Peak Demand

	Average Gallons Pumped			Reduction (2009 from 2008)
	2009	2008	2007	
May	7,628,971	8,173,200	9,343,367	6.7%
June	8,042,500	9,373,933	10,979,200	14.2%
July	7,993,245	8,091,267	10,464,203	1.2%
Avg/Day in Peak Month	7,888,237	8,546,133	10,262,257	7.7%
Highest Day	10.5 MGD	11.5 MGD	14.5 MGD	8.7%
# Days over 11 MGD	0	1	38	

MGD = Million gallons per day

# Reclaimed Water

Produced = 4,019 AF

Direct Reuse = 1,498 AF

Antelope Hills GC = 770 AF

Prescott Lakes GC = 458 AF

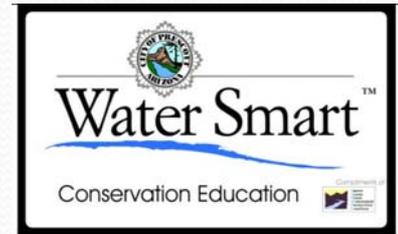
Hassayampa GC = 212 AF

Commercial/Other = 58 AF

Recharged = 2,430 AF



# 2009 Water Conservation Program



- 2007 U.S. BuRec Grant (reimbursed \$45,800)  
Completed regional survey, planning, training, Conservation Handbook, and "retiree connection" public service messages
- Water Smart regional education implemented  
For Upper Verde River Watershed Protection Coalition [www.uvrwpc.org](http://www.uvrwpc.org)
- 641 Incentive Credit Applications Processed  
20% increase over 2008; 232 AF cumulative water savings from 2006-2009

# 2010 Water Conservation Initiatives

- Continue Water Conservation Incentive Credit and Regional Education Programs
- Partnership with Parks and Recreation – irrigation efficiency enhancement project
- Support CLIA (Certified Landscape Irrigation Auditor) training and implementation for Parks irrigation personnel
- Utility Smart education program designed for plumbers, landscapers and property owners; proper installation and maintenance of backflow protection and sewer backwater valves.

Water Smart™

# 2010 Water Management Goals

- Surface water recharge enhancement
- Commence Water Management Policy formulation following final approval of Assured Water Supply Modification
- Draft policy addressing exempt well drilling on properties inside the City for which water service is available