



Arizona Department of Water Resources Prescott Active Management Area

JUNE 2007

Leak Detection — Every Drop Counts! AMA STAFF RECEIVES TRAINING & EQUIPMENT

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Pursuant to the Community Water System Planning Legislation, all community water systems are required to implement water conservation plans that increase the efficiency of the water system, reduce waste, and encourage consumer water conservation.

One way the Arizona Department of Water Resources (ADWR) is assisting communities with these conservation efforts is by providing assistance with leak detection.

The Arizona Patch the Pipe Program uses state-of-the-art digital leak detection equipment to help water providers find leaks in their distribution systems.

Leaks are one of the major reasons water providers report an average of 10-20% of water use as lost and accounted for!

ADWR has leak detection equipment and trained staff available to assist water providers in locating leaks in their distribution systems.



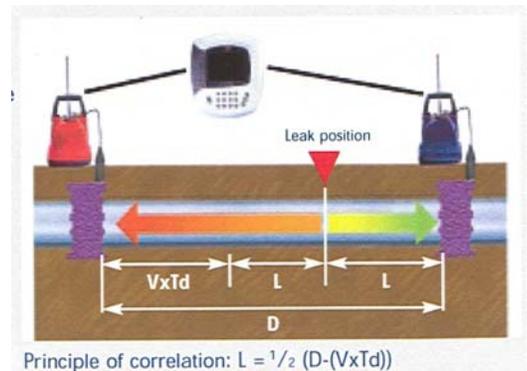
Arizona's Leak Detection Program

The leak detection service is available at no charge and offered on a first come first served basis. Once the leaks are detected, it is the water provider's responsibility to conduct and pay for the repairs.

If you are interested in either using this service or obtaining additional information, please contact the Prescott AMA office.



Leak Detection System. Magnetized Units transmit leak status signals to Patroller unit



Principle of correlation: $L = \frac{1}{2} (D - (V \times T_d))$

Digital Leak Noise Correlator pinpoints leak location



Get to Know... Mark Holmes

"Our water resources are so limited and so precious, we cannot afford to not be incorporating sustainable water resource planning on a regional basis."

Mark Holmes
Water Resource Director
Town of Chino Valley

Mark Holmes has been very busy during his first year and a half as the Water Resource Director for the Town of Chino Valley.

Since accepting the position, Mark has had the challenging job of developing a long-term water management plan, creating water policy, and expanding the Town's water portfolio, which includes plans to transport water into the AMA from the Big Chino Sub-basin.

Mark is dedicated to water

conservation and, if he gets his way, the users of the imported water will see some of the strictest conservation requirements ever adopted by a municipality in the state of Arizona.

Mark is working to develop Town code that would address water conservation throughout the Town and has partnered with other local entities to create an education campaign to address water conservation in the region.

Mark landed at the Town after a five year stint as a hydrogeologist with ADWR.

He earned a bachelor's degree in hydrogeology and environmental geology from the University of Wisconsin and a master's degree in hydrogeology and limnology (the study of inland waters) from the University of Minnesota.

Jim Holt

Appointed to GUAC

"I am both pleased and honored to have been selected by Governor Napolitano as a member of the Prescott AMA Groundwater Users Advisory Council. I will work hard to represent the City of Prescott as well as the region as we address the complex water issues facing Yavapai County."

Jim Holt
Senior Project Manager
City of Prescott

No stranger to the Groundwater Users Advisory Council, Jim Holt, former Area Director for the Prescott Active Management Area and current City of Prescott Senior Project Manager for the Big Chino Water Ranch, was recently appointed to the Council by Governor Napolitano.

The five members of the council are appointed to represent the users of groundwater in the active management area and on the basis of their knowledge of, interest in, and experience with problems relating to the development, use and conservation of water. The term of office for each member is six years.

Important responsibilities of the GUAC include:

- Advising the Area Director of the AMA
- Making recommendations on groundwater management programs and policies
- Commenting on draft AMA management plans
- Providing comment to ADWR on the groundwater withdrawal fee and the expenditure of funds in the Conservation, Augmentation and Monitoring Funds

Congratulations Jim!



Valves Save Water & Energy

AMA Partners with Town of Prescott Valley to Conserve Water

About two-thirds of the water used by restaurants is used for dishwashing. With that in mind, Prescott AMA and Town of Prescott Valley staff hit the streets to promote the Arizona Rinse Smart program.

Sponsored by ADWR, Arizona Rinse Smart is a new water efficiency program that focuses on replacing high-water use, low-pressure pre-rinse spray valves with lower-water use, higher-pressure valves.

The Rinse Smart valves use 1.6 gallons-per-minute at 60 p.s.i. pressure — half the water use of standard spray valves.

The pilot project resulted in the installation of thirty-two valves at Prescott Valley eateries. The Town’s water savings from this effort could reach 1.6 million gallons per year!

The partnership with Prescott Valley is the first Rinse Smart effort in the Prescott AMA and ADWR is pleased by the Town’s enthusiasm to participate in water conservation programs.

ADWR intends to partner with other municipalities to expand the Rinse Smart program in the region. If your restaurant or cafeteria is interested in saving water, energy, and money, please contact the Prescott AMA office.



John Munderloh, Water Resource Manager, Town of Prescott Valley, demonstrates a Rinse Smart valve

“With an average annual savings of 50,000 gallons per valve, these 32 Prescott Valley restaurants and schools are lending a big hand to the region’s water conservation efforts.”

Herb Guenther
Director
ADWR

- GUAC—**
Groundwater Users
Advisory Council
- LDIG—**
Local Drought
Impact Group
- SWAG—**
Statewide
Water Advisory
Group
- WAC—**
Yavapai County
Water Advisory
Committee

Calendar of Events

- JUNE 1-29—WATER EDUCATION DISPLAY, PRECOTT PUBLIC LIBRARY
- JUNE 19, 10:00-12:00—LDIG, COTTONWOOD
- JUNE 20, 2:00—WAC, CAMP VERDE
- JUNE 27, 8:00-4:30—CONSERVE WATER EDUCATOR WORKSHOP, PRESCOTT
- JUNE 29, 10:00—SWAG, ADWR PHOENIX
- JULY 11, 8:00-4:00—HEALTHY WATER, HEALTHY PEOPLE EDUCATOR WORKSHOP, COTTONWOOD
- JULY 18, 2:00—WAC, PRESCOTT
- AUGUST 3, 8:00-3:30—PROJECT WET EDUCATOR WORKSHOP, COTTONWOOD
- AUGUST 22, 2:00—WAC, JEROME
- GUAC—CALL AMA FOR DATE & LOCATION

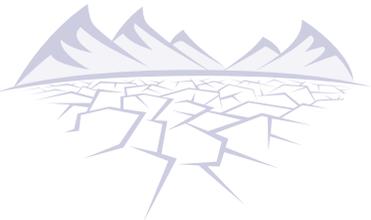
Events listed are those that include ADWR participation and are relevant to the Prescott AMA. Event information is subject to change. In future issues, this section may be expanded to include events in which ADWR is not a participant. With that in mind, please submit water-related event information to prescottama@azwater.gov.

Drought Feedback

HELP DIRECT DROUGHT PREPAREDNESS & EDUCATION IN YAVAPAI COUNTY

Providing local input on drought conditions is important so that state-level drought monitoring and reporting activities can be verified against actual on-the-ground observations.

Submitting feedback will take just a couple of minutes a month and observations can be made while you are on the job or on a hike. Please contact Crystal Frost for more information.



www.azwater.gov

Leak Detectors

Jack McCormack and Crystal Frost of the Prescott AMA attend Patch the Pipe—leak detection training May 2007



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Do You Know?

1. How many miles of pipelines and aqueducts does the United States and Canada have? Hint: it's enough to circle the planet 40 times!
2. What were the first water pipes made from in the US?
3. How much of the human brain is made up of water?
4. How many water groups exist in the Prescott AMA?
5. Who was recently appointed to serve on the Prescott AMA GUAC?

Conservation Tips

- ◊ Encourage friends and neighbors to be part of a water-conscious community.
- ◊ Check your water meter and bill to track water usage. If usage increases substantially, check for leaks and/or adjust the irrigation system.
- ◊ Shut off automatic watering systems when it rains or install an inexpensive rain shut-off device.
- ◊ Water deeply but less frequently to create healthier and deeper root systems.
- ◊ Weed yards and gardens regularly. Weeds compete with other plants for water.
- ◊ Regularly check sprinkler systems and timing devices to be sure they are operating properly for each season.
- ◊ Turn water treatment and softener units off while on vacation. Water treatment equipment can reject 40-50% of the water produced.

1. One Million; 2. Fire charred bored logs; 3. 70%; 4. Many...more every day; 5. Jim Holt

CONSERVING WATER TODAY FOR ARIZONA'S TOMORROW