

SOUTHEASTERN WATER ASSOCIATION
147 EAST SOMERSET CHURCH ROAD
SOMERSET, KY. 42503
606-678-5501

Item # 5

The Southeastern Water Association has taken steps to monitor and reduce the water loss in the Distribution System. Listed below is a detailed list and steps that we believe will help us accomplish this task.

Southeastern Water Association is a merged system of four smaller systems which pumps water through various sizes of water mains ranging from three inch to twelve-inch mains totaling over 550 miles of water mains, 11 tanks and 11 pumping stations. Our goal is to have smaller more manageable routes which can monitor customer usage while metering the route through a bypass meter which will allow the system to monitor water loss. This will be accomplished by the following steps.

- A. Southeastern Water Association has reached out to the Kentucky Rural Water Association for assistance and training. Tim Blanton a Circuit Rider for the KRWA has spent several hours assisting and training employees in the field as well as explaining the process to follow to achieve the best results.
- B. Southeastern Water Association has purchased equipment to assist employees with the process; Portable Flow Meter, Ultrasonic Listening Devices along with training to operate each machine.
- C. Permanent test pits are being installed at all tanks on the outlet sides as well as throughout the system the specific tank supplies. When possible permanent pits are installed on all side roads. If needed by-pass meters are being installed.
- D. Flow meters are being installed in all new and upgraded pump stations. This allows us to monitor the amounts of water being pumped to the tank.
- E. Master Meters are read daily.

- F. Southeastern Water Association has polyethylene service tubing. When crews have service line leaks, all pipe is replaced from the water main to the customer's meter to reduce future leaking as well as reducing future excavation in customer's lawns.
- G. Mains that have a history of continuous leakage are being logged for replacement when funds are available.
- H. Customer meter reading routes are being reduced to fewer customers for more manageable usage which allows flow meters to be more effective in a shorter distance.
- I. Master meters are read at night periodically while flow is at the lowest compaction to allow a better view of the system's lowest usage. This is logged and checked to ensure the readings correspond from time to time which means flows have not increased indicating leakage.
- J. Quick assessment and repairs are made of all reported possible leaks.
- K. When possible, pressure is controlled by installing pressure regulators to help control leaks and not put unnecessary stress on the water mains.
- L. Messages are printed periodically on customer's bill cards to report any water noticed in normally dry areas.