

*A new book by Tim Wilson on
irrigation system maintenance*



Going Green with Irrigation Preventative Maintenance



A new water conservation book
that is the first of its kind in the
green industry.

Order Online!

www.h2o-ss.com

See pages 2 & 3 for more details:

- Excerpts
- Pricing

**Preventative
Maintenance for
Environmentally
Friendly Landscape
Irrigation Systems**

H2O Stewardship Solutions
2008 Sycamore Dr.
Eagle Mountain, UT 84005
info@h2o-ss.com
www.h2o-ss.com
509-981-6441

This new 65 page booklet lays out a specific preventative maintenance schedule for every key component of an irrigation system. It is structured so as to identify specific weekly, monthly, annual and 5 year + inspections and repairs that should be done to keep systems running in peak condition for the greatest water use efficiency.

Pricing Data — Order Online www.h2o-ss.com

Quantity	Cost (bundle)
5	\$20.00
25	\$87.50
100	\$300.00
500	\$1,250.00

Book Excerpt # 1 of 2:

Preface

“After 40 years or more of the increased popularity of automatic irrigation systems, it is obvious that they do not, in fact, take care of themselves. One of the biggest causes of water waste is the failure of owners to properly maintain their systems in peak operating condition.

This book answers the question: What should be done to a system on a regular basis *before* it breaks down? Many people and companies budget money for annual repairs to a system because they know that it will break at some point.

.....I know of almost no one that budgets money and time for preventative maintenance of an irrigation system. The old phrase, “If it ain’t broke, don’t fix it,” is not entirely true. How many of us would drive our cars until the engine seized up before changing the oil and filter? This book will help you plan for regular maintenance to a system and allow you to budget for labor and parts in advance, before the system breaks down.”

Below is a sample from one chapter detailing the scheduled maintenance on rotor heads. Other system components are addressed in the same manner.

Book Excerpt #2 of 2

Chapter Two: Sprinklers, Rotor Head Maintenance Schedule:

Weekly

- Turn on the zone of rotor heads and visually scan for leaks. Repair as needed.
- Check that the head is spraying the area as designed. Adjust as needed.
- Check for heads that no longer turn. Replace as needed.

Monthly

- Check the body for cracks and leaks where the stem rises from the body.
- Check for leaks coming up from below the head. Repair as needed.
- Check that the nozzle is not clogged or semi-clogged. Unclog or replace.
- On heads that appear clogged check the filter under the head. Replace as needed.
- Check visually for too high or too low pressure. Adjust valve flow control or pressure regulator as needed.
- Check arc adjustment of the head. Ensure that it is covering only the landscape area for which it was designed. Adjust as needed.
- Check the radius of the head coverage. Make sure the set/adjustment screw is not set incorrectly.

Annually

- Replace the filters at the base of the head on all heads.
- Replace worn nozzles and/or nozzles that cannot easily be unplugged.
- Check that the correct nozzle is in place and has not been inadvertently changed during the year.
- Check for nozzle Matched Precipitation Rate (MPR). Replace as needed.
- Check rotation speed. All heads of the same type from the same manufacturer should rotate at the same speed.
- Check stem seal and replace if leaking.
- Check for low or tilted heads and raise and/or straighten as needed.
- Check for low head drainage. Replace low heads with heads with in-head check valves.
- Using a Pitot Tube, check pressures at the beginning, middle and end of zone. Adjust pressure as needed and where available. If a psi variation greater than 10% exists from the first head compared to the last head on the zone, consider psi regulating heads for replacement, if not currently in use. If pressure regulating rotor heads are not available, consider making nozzle changes to better regulate pressure.

Five Year Maintenance

- Perform a catch can test to determine the zone Distribution Uniformity (DU).
- Replace all nozzles and filters.
- Replace all stem seals.
- Check head locations and move as needed based on current landscape configuration and plant growth.
- Tighten all connections where the head connects to the underground piping.
- Tighten all connections where risers or flex pipe connects to fittings on the PVC or Poly pipe fittings. Check for unusual wear, cracks, leaks or stress. Replace parts as needed.
- Re-set heads to correct elevation and check that they are level.