



OPERATION AND MAINTENANCE
IRRIGATION SPRINKLER (WV441)

WVENG_500_OM
8/11

_____ Land Owner	_____ Service Center
_____ County	_____ Date

A properly operated and maintained **Irrigation Sprinkler-Microirrigation (441)** is an asset and with proper management will protect the natural resources. Your system is designed and installed to convey and distribute water from irrigation inline and point source emitters, heads and filter systems so that water can be conveyed to the plant or crop as efficiently and effectively as possible.

This practice will be maintained for the life span which is **20** years and if any component fails during this time frame, it shall be replaced. Check the system and appurtenances on a regular basis, especially before spring irrigation and prior to winterizing the system or winter close up. Correct, repair or replace necessary parts as needed and

- Inspect for leaks.
- Inspect test valves, pressure regulators, switches, connections and other apparatuses.
- Paint or protect all exposed PVC unless UV protected.
- Remove debris, minerals, algae and other materials that may plug or restrict the system.
- Clean and replace filters on a regular base and as needed.
- Remove and properly store pipes, filters, etc. that are not freeze protected.
- Drain and/or provide cold protection for cold weather operation.
- Properly store, handle and protect driptape and PE rolls from environmental conditions.
- Do not remove packaging or protective film until installation.
- Do not drop, throw, drag or push irrigation tape over rough surfaces.
- Do not cut through cardboard when removing protective film.

Surface Installation

- Place tape on the windward side of the row and/or upslope of planted crop.
- Install emitters facing upward.
- Anchor tape every 20 feet with wire staple or with dirt.
- Sinuously install tape near surface to allow for contraction and expansion.
- **Leave extra tape on the ends for connection.**
- Leave end of tape open for initial flushing.
- Hold surface drip tape should be held at both ends with end holders.

Mechanical Sub-Surface Installation

- Support both sides of roll with metal, plastic, or wooden backers.

- Install outlets facing upwards.
- Use adjustable braking mechanism to provide uniform tension on the roll.
- Support the roll core with an insert plug.
- Do not allow tape to rub against sharp objects or the side of the shank.
- The shaft, reel and backers should all turn simultaneously.
- Position the bottom of the roll 35 inches away from the funneled injection shank opening.
- Avoid all possible damage to tape from bolts, worn-out or rusty metal parts, kinks and stretching.
- Allow extra tape at the beginning and end of the row for proper connections.
- Do not walk on top of the drip tape in order to avoid compacting dirt.
- Leave end of tape open for initial flushing.
- Flush main, sub-main, and manifold before connecting the lateral drip line.

Clear Plastic Mulch Installation

- If using clear plastic mulch, bury tape to prevent burn caused by glass magnifying effect.

Other Specific Requirements:

Reference engineering plan: _____

<u>Inspection</u> <u>Date</u>	<u>Items to be Repaired and Corrective Action Taken</u>	<u>Repair</u> <u>Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Contact your local NRCS office for any additional technical assistance you might need for implementation of this O&M plan.

This O&M Plan was discussed and a copy provided to the landowner/operator.

Signed by the Responsible NRCS Employee/Conservation Partner *Date*