

**NATURAL RESOURCES CONSERVATION SERVICE
OPERATION AND MAINTENANCE PLAN
ARIZONA**

**IRRIGATION SYSTEM, SPRINKLER
(No and Ac.)**

CODE 442

Cooperator _____ Date _____

Address _____

Location: Section _____ Town _____ Range _____ Field No. _____

NRCS Field Office _____ County _____

This conservation practice is an asset to your farm or ranch. This practice will need periodic operation and maintenance to maintain satisfactory performance. The life of this practice or system is at least 10 years. The life of this practice can be assured or extended by thorough and timely operation and maintenance.

GENERAL RECOMMENDATIONS

This practice will require you to perform periodic maintenance and may also require operational items to maintain satisfactory performance. Here are some recommendations to help you develop a good operation and maintenance program.

- Periodic checks and removal of debris, *minerals, algae* and sediment as necessary from nozzles to assure proper operation.
- Inspection or testing of all pipeline, *valves, pumping plant components and appurtenances*, as applicable, *for signs of wear or ultraviolet degradation*.
- Regular testing of pressures and flow rates to assure proper operation. *Check pressure gauges to ensure proper operation; repair/replace damaged gauges.*
- Periodic checks of all nozzles and spray heads for proper operation and wear.
- Routine *inspection, testing, and maintenance* of all *system and mechanical components, such as pumps, valves, flow meter, and pipelines*, in accordance with the manufacturer's recommendations.
- Irrigation Water Management shall be performed annually.*
- Prior to retro-fitting any electrically powered irrigation equipment, electrical service must be disconnected and the absence of stray electrical current verified.
- Allow the pipe and lateral lines to fill gradually when being put into use after shut down or draining. Filling at the specified rate requirements and opening/closing valves to prevent excessive water hammer.*
- Check and assure proper operation of backflow protection devices, if applicable.*
- Check and re-apply protective coating on all above ground PVC materials as needed (minimum every two years).*
- Requirements for cleaning and repairing of screens and structures, including the periodic check and repair all valves, gates and regulators to the system requirements following the manufacturer's recommendations.*
- Remove all foreign debris that hinders system operation.*
- Requirements for off-season storage and handling of pipe, including draining and/or providing for cold weather operation of the system.*
- Limit livestock usage to periods that permit use without damage.*

