

# Well and Onsite Wastewater Facts

## WASTEWATER TECHNOLOGY

FSN - 13

Loudoun County Health Department

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**Component Type:** Dispersal

**Function:** A Spray Irrigation System provides dispersal at the natural soil surface level. The wastewater is treated and disinfected prior to spraying.

**Manufacturers:** Products are found with most manufacturers of irrigation equipment.

**First approved in Virginia:** 1995

**Number installed in Loudoun County:** 5

**Allowance to reduce dispersal field footprint:** In some instances

### Description of Use

The purpose of Spray Irrigation is to be able to distribute wastewater onto the soil where the ground water or rock is very high. In all cases the wastewater is pretreated to a high degree and disinfected prior to being sprayed on the soil. The spray area should be fenced so that animals or humans do not come directly in contact with the spray. Care must be given to any crops (typically hay/grass) used for food – when, where and by whom they are consumed. These systems are used in some water reuse applications such as a golf course or tree farm.

### Recommended Maintenance Required

Maintenance of the spray irrigation equipment for breakage due to mowing, animals, and freezing, is typically the greatest direct concern. Maintenance and monitoring of the disinfection equipment as well as the pretreatment technology are critical for this system to function properly. During cold weather the system may have to store effluent for a time when it is not feasible to spray.

## Spray Irrigation



Spray Installed