



# Conestoga-Rovers & Associates Project Summary

## KEY PROJECT ELEMENTS

- Irrigation System Design
- Installation Oversight
- Pasture, Orchard, and Livestock Watering Systems

## IRRIGATION SYSTEM DESIGN/INSTALLATION OVERSIGHT

VARIOUS LOCATIONS, UTAH



CLIENT: UTAH USDA-NRCS  
DURATION: 2006 TO PRESENT

CRA was retained by the Utah USDA-NRCS to provide planning, design, and implementation of irrigation systems for pasture and orchard and livestock watering systems. The contract included the design of irrigation systems, water source (pond, water pumping facility, etc.), and associated components. These components included, but are not limited to: irrigation pipelines, main and submains (both low and high pressure), subsurface drainage systems, micro irrigation (drip/trickle emitters), pumping plant (including pump sizing and selection), sprinkler irrigation (wheel lines and center pivot), flood irrigation, water source development (well, spring, diversions), and water trough practices.

CRA has worked on 12 sites in Utah where crops grown include alfalfa and trees. Sprinkler, flood, and drip irrigation were being used or planned. Each site was specific in its irrigation needs and activities, including irrigation system design, pump sizing, PVC pipeline design, gated pipe systems, surge analysis, pressure reading, pressurized irrigation systems, and water control systems. Seven sites required pipeline, water troughs, and water source development for the watering of livestock on grazing land.

*Photo Courtesy of USDA-NRCS.*

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