

# Denver Water, Water Conservation Analysis

Denver, CO

## Project Purpose

Denver Water requested irrigation-system evaluations at 219 school facilities in three districts in a four-month window to quantify water use. Reports then were tailored to each site to provide specific water conservation recommendations and project associated annual water and monetary savings.



## Study Results

- Total irrigated areas assessed: 946 acres
- Total potential water savings: 63.7 million gallons
- Historic annual water use: nearly 658 million gallons
- Potential annual water cost savings: \$180,800
- Average simple payback: 6.5 years

## Role of Irrigation Consultant

- Develop spreadsheet database to organize, sort and evaluate field data.
- Select irrigation-audit sites from each district for typical performance values.
- Project savings from improved system management/recommended renovations.

## Unusual Challenges

Site owners often assume a single system upgrade will provide instant efficiency. The challenge of improving efficiency in aging systems is complex. The consultant's "partner-in-design" approach challenged traditional client-consultant dynamics benefitting each district and the community.

