

# Holbrook Drainage Channel Restoration-Ph 2

- ▶ Background
  - ▶ Subdrainage critical to irrigated agricultural production
  - ▶ Drainage Districts formed to fund capital improvements
- ▶ Differed maintenance due to lack of sufficient funding
  - ▶ Adverse impacts to community (flooded basements)
  - ▶ Continued subdrainage critical to prevent alkalification of soils\*

\* Federal Land Bank of Wichita Report, 1943

# Purpose and Need: Restore Channel Function

- ▶ mitigates or reduces economic and social impacts on agricultural and rural communities;
- ▶ demonstrates an intent to leverage any state grant or loan with private, local, or federal funding;
- ▶ has readiness to proceed upon receipt of necessary funding, and
- ▶ demonstrates that the project will not unreasonably increase the risk of non-compliance with any interstate compact or the curtailment of existing water rights.

# 3 Project Tasks

- ▶ Thoughtful removal of woody vegetation along main drainage channel.
  - ▶ Systematically remove select woody vegetation by hand or mechanical means.
  - ▶ Dispose of material removed in an environmentally sensitive fashion.
- ▶ Remove cattail vegetation and excavate to the original designed earthen drainage channel subgrade and channel width and side slopes.
  - ▶ Systematically remove the cattails and other vegetation by hand or mechanical means.
  - ▶ Dispose of material removed in an environmentally sensitive fashion.
- ▶ Project Management and Final Report
- ▶ Grantee Deliverable: Functional Channel
- ▶ CWCB Deliverable: Final Report

# Project Budget

## \$21,000

- ▶ \$5,000 Local Match
  - ▶ \$3,000 In-kind Project Management and Report (14.3% of Project Budget)
  - ▶ \$2,000 cash from individual citizens and groups impacted by adverse conditions
- ▶ \$2,000 request from Ark RT Basin Funds
  - ▶ Total Match to Statewide = \$7,000
- ▶ Statewide Request = \$14,000
  - ▶ Deliverable includes metrics on costs of channel restoration per linear mile of channel
- ▶  $\$5,000 + \$2,000 + \$14,000 = \$21,000$

# 2011 Study on Drainage District Rehabilitation

- ▶ How do you propose that this will not happen again?
- ▶ Is there a plan to provide annual maintenance?
- ▶ How will you prevent being in the same situation in years to come?

Assessment of the Potential for Drainage District Infrastructure Rehabilitation in the Lower Arkansas Valley, Colorado.

Final Report

In Agreement With

Southeast Colorado Resource Conservation and Development, Inc.

And

Colorado State University

John Wilkins (Wilkins-Wells) – Principal Investigator

Walter Epley – Principal Co-Investigator

March 2011