

**Practice: 320 - Irrigation Canal or Lateral**

**Scenario: #1 - Irrigation Canal**

**Scenario Description:**

This scenario is the construction of an Irrigation Canal or Lateral. Typical construction dimensions are 4' wide bottom x 3' deep x 1320' length with a side slope of 2:1.

Resource concerns: Excess/Insufficient Water - Inefficient Use of Irrigation Water.

Associated Conservation Practices: 388-Irrigation Field Ditch; 443-Irrigation System, Surface or Subsurface; 533-Pumping Plant; 430-Irrigation Pipeline; 587 - Structure for Water Control; 449 - Irrigation Water Management

**Before Situation:**

Water supply for an area is inadequate for crop production and irrigation water application is inefficient.

**After Situation:**

An earthen canal that has adequate capacity to convey sufficient irrigation water to meet the demands of the system and make irrigation practical for the crops being grown.

**Scenario Feature Measure:** Volume of earth excavated

**Scenario Unit:** Cubic Yard

**Scenario Typical Size:** 1,467

**Scenario Cost:** \$3,731.81

**Scenario Cost/Unit:** \$2.54

**Cost Details (by category):**

Component Name	ID	Component Description	Unit	Price (\$/unit)	Quantity	Cost
<b>Equipment/Installation</b>						
Excavation, Common Earth, side cast, small equipment	48	Bulk excavation and side casting of common earth with hydraulic excavator with less than 1 CY capacity. Includes equipment and labor.	Cubic yard	\$2.29	1467	\$3,359.43
<b>Mobilization</b>						
Mobilization, small equipment	1138	Equipment <70 HP but can't be transported by a pick-up truck or with typical weights between 3,500 to 14,000 pounds.	Each	\$186.19	2	\$372.38