

**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:** 1467

**Total Scenario Cost:** \$3,607.62

**Scenario Cost/Unit:** \$2.46

**Cost Details**

Component Name	Id	Description	Unit	Cost	Qty	Total
----------------	----	-------------	------	------	-----	-------

**Equipment Installation**

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	\$2.23	1467	\$3,275.14
--	----	---	------------	--------	------	------------

**Mobilization**

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	\$166.24	2	\$332.48
-------------------------------	------	--	------	----------	---	----------