

Practice: 356 - Dike

Scenario: #1 - Dike

Scenario Description:

Construction of a earthen embankment barrier to control water flow and level. Associated practices include: PS342 Critical Area Planting, PS382 Fence, PS464 Irrigation Land Levelling, PS587 Structure for Water Control

Before Situation:

Site is subject to flooding or overland flow which poses a potential for damage to land or property. Site may also require control of water level for purposes connected with crop production; fish and wildlife management; or wetland maintenance, improvement, restoration, or construction. An adequate quantity of soil suitable for constructing an earthen dike is available at an economical haul distance. Resource concerns include Soil Erosion, Excessive runoff, flooding or ponding

After Situation:

Water level controlled by a stable earthen structure. Potential hazard to public safety, land or property mitigated; environmental benefit provided.

Scenario Feature Measure: Volume of Earthfill

Scenario Unit: Cubic Yard

Scenario Typical Size: 500

Scenario Cost: \$1,421.82

Scenario Cost/Unit: \$2.84

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|--|------|---|------------|-----------------|----------|------------|
| 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 | \$2.29 | 500 | \$1,145.00 |
| Mobilization | | | | | | |
| Mobilization, medium equipment | 1139 | Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds. | Each | \$276.82 | 1 | \$276.82 |