

Scenario Worksheet

Practice and Scenario Description:

Information Type	Data
Region	Delta States
State	Louisiana
Discipline Group	Engineering General
Practice Code/Name	356 - Dike
Scenario ID	3
Scenario Name	Shallow Water Area
Scenario Description	Construction of a barrier, constructed of an earthen embankment, to control water level. Embankment structure to provide adequate freeboard, allowance for settlement, and foundation and embankment stability. Associated practices include, but are not limited to: PS327 Conservation Cover, PS656 Constructed Wetland, PS 342 Critical Area Planting, (378) Ponds, (382) Fence, (464) Irrigation Land Levelling, (500) Obstruction Removal, (528) Prescribed Grazing, (587) Structure for Water Control, (620) Underground Outlet, (645) Upland Wildlife Management, (658) Wetland Creation, (659) Wetland Enhancement, (657) Wetland Restoration, (644) Wetland Wildlife Habitat Management.
Before Practice Situation	Site requires 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.
After Practice Situation	A 2,640 foot long Class III dike is constructed with an average height of 3 feet, top width of 10 feet, and 3:1 side slopes. The water level is controlled by a stable earthen structure, and environmental benefit provided.
Scenario Feature Measure	Volume of Earthfill (including volume of soil berm, as needed)
Scenario Unit	Cubic Yard
Scenario Typical Size	5573 Typical earthen dike assumed 2640 linear feet, Class III (3 ft. in height, 10 ft. top width, 3H:1V side slopes).

Cost Summary:

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$18,502.36	\$3.32
Labor	\$0.00	\$0.00
Mobilization	\$882.64	\$0.16
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$19,385.00	\$3.48

Cost Details:

Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
Equipment/Installation	49	Earthfill, Roller Compacted	Earthfill, roller or machine compacted, includes equipment and labor	Cubic yard	\$3.32	5573	\$18,502.36
Mobilization	1140	Mobilization, large equipment	Equipment >150HP or typical weights greater than 30,000 pounds or loads requiring over width or over length permits.	Each	\$249.71	3	\$749.13
Mobilization	1139	Mobilization, medium equipment	Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$133.51	1	\$133.51