

ECONOMIC COST DATA

Water and Sediment Control Basin (638)

OKLAHOMA

**Cost Data**

<b>Typical Implementation Scenario</b>		
<b>638.1 Water and Sediment Control Basin</b>		
Consist of an embankment with a principle spillway constructed across the slope and minor water courses to form a sediment trap and water detention basin. A typical structure has a 10 acre watershed requiring 1000CY of excavation/fill with 400 ft of conduit with a total cost of \$2826.00		
Data Source: The typical structure cost is based on actual cost data collected for ponds and irrigation pipeline installations with no breakdown by equipment, materials and labor.		
Geographic Area:	Statewide	
Unit for Cost Estimate:	ECY	
Practice Life (Years):	10	
Discount Rate (%/Year):	5%	<b>Cost/Unit</b>
<b>Materials</b>		<b>\$1.53</b>
Includes equipment/installation, labor and mobilization costs.		
Excavation/fill - 1000 CY @ \$1.53 CY		
Conduit - 2400 DIFT @ .54/DIFT		
Equivalent Volume=Emb 1000 CY + conduit (847ECY)=1847 ECY		
<b>Equipment/Installation</b>		<b>\$0.00</b>
(Included in Materials cost)		
<b>Labor</b>		<b>\$0.00</b>
(Included in Materials cost)		
<b>Mobilization</b>		<b>\$0.03</b>
Included in Materials Cost		
<b>Operation &amp; Maintenance (Annual)</b>		<b>\$0.05</b>
3% of Installation Costs		
<b>Acquisition of Technical Knowledge</b>		<b>\$0.00</b>
None		
<b>Forgone Income (Annual)</b>		<b>\$0.00</b>
None, possible land brought into production.		
<b>Risk</b>		<b>\$0.00</b>
Reduced risk, change in land use		
<b>Administration &amp; Permit Costs</b>		<b>\$0.00</b>
None		
<b>Total Cost Estimate:</b>		<b>\$1.61</b>