

ECONOMIC COST DATA

Terrace (600)

OKLAHOMA

Cost Data

Typical Implementation Scenario

600.1 Terrace Construction

A channel with a ridge on the downslope side installed across the land slope to control erosion. The typical job consists of 5331 LF at an average cost of \$3572.00. (A cost of \$0.67/LF)

Approximately 17 percent of the jobs require the removal of existing inadequate terraces before the new terrace system will function as designed. The cost per LF for removing the existing terraces is 61% of the cost per LF of constructing new terraces. Therefore, a LF of removal is equivalent to 0.61 LF of new terraces, resulting in a new system of 4000 LF plus removal of 3000 LF of existing terrace being $(4,000 + .61 (3000)) = 5830$ LF at a cost of \$3906.10.

Also, when existing terraces are to be reconstructed on same alignment as existing terraces the cost is 0.67 percent of new construction. Therefore, reconstruction of 4000 LF of existing terraces results in $(4000 \times 0.67) = 2,680$ ELF of new terrace at a cost of \$0.67/LELF for a total cost of \$1,795.60.

Data Source: 2006-2007 actual cost data

Unit for Cost Estimate: ELF - Equivalent Linear Foot
 Practice Life (Years): 10
 Discount Rate (%/Year): 5%

	<u>Cost/Unit</u>
Materials	\$0.00
None	
Equipment/Installation	\$0.67
Labor	\$0.00
Included in Equipment/Installation cost	
Mobilization	\$0.00
Included in Equipment/Installation Cost	
Operation & Maintenance (Annual)	\$0.00
0% of Installation Costs	
Acquisition of Technical Knowledge	\$0.00
None	
Forgone Income (Annual)	\$0.00
Minimal to no land taken out of production.	
Risk	\$0.00
Reduced risk, less concentrated flow erosion, less machinery wear & tear.	
Administration & Permit Costs	\$0.00
None	
Total Cost Estimate:	\$0.67

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600.2 Terrace (Fill Section)

Terraces that have underground outlets. The typical system is a 40 acre field with 6 terraces. Each terrace height (channel to ridge) varies from 1.4 ft to 4.0 ft resulting in an average ridge volume of 200 CY per terrace at a total cost of \$14,760.00

Approximately 50% of the jobs require removal of existing terraces before the new terrace system will function as designed.

The cost for removal of existing terraces is 0.41/LF therefore each LF of terrace removal is equivalent to 0.33CuYd of fill (\$0.41/LF ÷ 1.23/CuYd)

Data Source: 2006-2007 actual cost data

Unit for Cost Estimate: ECY - Equivalent Cubic Yard
 Practice Life (Years): 10
 Discount Rate (%/Year): 5%

	<u>Cost/Unit</u>
Materials	\$0.00
None	
Equipment/Installation	\$1.23
Labor	\$0.00
Included in Equipment/Installation cost	
Mobilization	\$0.00
Included in Equipment/Installation Cost	
Operation & Maintenance (Annual)	\$0.00
0% of Installation Costs	
Acquisition of Technical Knowledge	\$0.00
None	
Forgone Income (Annual)	\$0.00
Minimal to no land taken out of production.	
Risk	\$0.00
Reduced risk, less concentrated flow erosion.	
Administration & Permit Costs	\$0.00
None	
Total Cost Estimate:	\$1.23