

ECONOMIC COST DATA

Channel Bank Vegetation (322)

OKLAHOMA

Cost Data

Typical Implementation Scenario		
Seedbed Preparation, Seed/sprigs & planting 322.1		
Establishing permanent herbaceous vegetation on channel banks, berms, spoils and associated areas along streambanks and/or shorelines (above the water line) following stabilization activities or used alone to stabilize streambank or shorelines to reduce erosion and sedimentation. Evaluations for the proper use of this practice are based on criteria found in the NRCS Streambank and Shoreline (580) standard.		
Data Source: 2006-2007 actual cost data		
Geographic Area:	Statewide	
Unit for Cost Estimate:	Acre	
Practice Life (Years):	10	
Discount Rate (%/Year):	5%	Cost/Unit
Materials		\$80.00
Includes the cost of the seed/sprigs and any needed seedbed preparation prior to planting. Plantings can be comprised of bermudagrass (seed, sprigs, sod mulch), native mixtures, tall fescue or "Blackwell" switchgrass and will be planted according to the NRCS critical area planting (342) standard and specifications		
Does not include cost of fertilizer for establishment.		
Equipment/Installation		\$20.00
Tractor / Drill / Sprigger / Spreader (typically range from \$15 - \$25 per acre)		
Includes labor		
Labor		
Costs included with installation		
Mobilization		\$25.00
Due to size of jobs (typically small), some cost may be incurred.		
Operation & Maintenance		\$2.50
Proper use which may include excluding use.		
2% of installation costs		
Acquisition of Technical Knowledge		\$0.00
Planting and management grass.		
Forgone Income		\$0.00
None		
Risk		\$0.00
None		
Administration & Permit Costs		\$0.00
None		
Total Cost Estimate:		\$127.50

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<u>Typical Implementation Scenario</u>		
Seedbed Preparation, bareroot trees/shrubs & planting 322.2		
Establishing trees / shrubs on channel banks, berms, spoils and associated areas along streambanks and/or shorelines following stabilization activities or used alone to stabilize streambank or shorelines to reduce erosion and sedimentation. Evaluations for the proper use of this practice are based on criteria found in the NRCS Streambank and Shoreline (580) standard.		
Data Source: 2006-2007 actual cost data		
Geographic Area:	Statewide	
Unit for Cost Estimate:	Acre	
Practice Life (Years):	10	
Discount Rate (%/Year):	5%	Cost/Unit
Materials		\$330.00
Includes the cost of the trees and/or shrubs (barerooted) and is based on average spacing requirements (681 - 1210 trees per acre) and costs of 35 cents per tree.		
Does not include cost of fertilizer for establishment.		
Equipment/Installation		
Included with labor costs		
Labor		\$472.75
Includes the cost labor and any equipment needed to install trees / shrubs and is based on an average rate of 50 cents per tree. Also includes any costs associated with site preparation prior to planting.		
Mobilization		
None		
Operation & Maintenance		\$16.06
Proper use which may include excluding use. 2% of installation costs		
Acquisition of Technical Knowledge		\$0.00
Planting and maintenance of trees.		
Forgone Income		\$0.00
None		
Risk		\$0.00
None		
Administration & Permit Costs		\$0.00
None		
Total Cost Estimate:		\$818.81

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<u>Typical Implementation Scenario</u>		
Seedbed Preparation, switchgrass, reedgrass & planting 322.3		
Establishing "Kanlow" switchgrass and common reedgrass on channel banks, berms, spoils and associated areas along streambanks and/or shoreline. May be installed following stabilization activities or used alone to stabilize streambank or shorelines to reduce erosion and sedimentation. Kanlow switchgrass is planted in areas at or above the waterline with common reedgrass planted at or below the water line in a system that provides protection from erosion and sedimentation during periodic fluctuations in water levels and flows. Evaluations for the proper use of this practice are based on criteria found in the NRCS Streambank and Shoreline (580) standard.		
Data Source: 2006-2007 actual cost data		
Geographic Area:	Statewide	
Unit for Cost Estimate:	Acre	
Practice Life (Years):	10	
Discount Rate (%/Year):	5%	Cost/Unit
Materials		\$2,545.00
Kanlow switchgrass: Cost of the seed and any needed seedbed preparation prior to planting.		\$95.00
Common reedgrass below water line: Costs includes rhizomes and labor for installation, based on 49 cents per rhizome with approximately 5,000 rhizomes planted per acre.		\$2,450.00
Does not include cost of fertilizer for establishment.		
Equipment/Installation		\$20.00
Tractor / Drill / Sprigger / Spreader (typically range from \$15 - \$25 per acre) and includes labor for planting above the water line. Hand tools such as shovels, tree spades, posthole diggers, etc. are used for planting rhizomes by hand.		
Labor	Costs included with materials / installation	
Mobilization	None	
Operation & Maintenance		\$51.30
Proper use which may include excluding use. 2% of installation costs		
Acquisition of Technical Knowledge		\$0.00
Planting and management grass.		
Forgone Income		\$0.00
None		
Risk		\$0.00
None		
Administration & Permit Costs		\$0.00
None		
Total Cost Estimate:		\$2,616.30