

Erosion Control– materials, cost estimates, and tools

METHODS, MATERIALS (<i>TOOLS</i>) (Cost will vary with location and supplier)	COST/100 SQ FT* (unless otherwise indicated)
Mulch leaf, pine needle, weed-free straw, shredded wood (<i>rake/shovel/wheelbarrow</i>) Total cost for 100 sq ft	\$0-25 \$0 - \$25
Erosion blanket coconut blanket (<i>scissors, utility knife, blunt end shovel</i>) biodegradable pegs (<i>hammers</i>) Total cost for 100 sq ft	15 3 \$18
Live stake or post (willow, red-osier dogwood) ½ - 1 ½“ branch (<i>lopper/saw, re-bar, sledge hammer/rubber mallet</i>) Total cost per post	(per post) \$0-5 \$0-5
Live fascine (also called Willow wattle, Brush bundle) brush – willow, red-osier dogwood (<i>lopper/brush cutter/saw</i>) bailing twine (<i>scissors/utility knife</i>) 6, 2.5’ diagonal-cut 2x4 stakes or live posts (<i>sledge/mallet</i>) Total cost for 20 linear feet	Cost/20 linear ft \$0 1 0-7 \$1-8
Berm local weed-free soil (<i>shovel/wheelbarrow</i>) ¼ # native grass seed, ¼ # cover crop seed, plants (optional) coco blanket and 20 wooden pegs (<i>scissors, hammer, flat shovel</i>) Total cost for 20 sq ft	Cost/20 sq ft \$0-20 5 5 \$10-30
Brush mattress brush – willow, red-osier dogwood (<i>lopper/brush cutter</i>), live fascine bailing twine (<i>scissors/utility knife</i>) 12, 2.5’ live posts (<i>saw</i>) or diagonal cut 2x4” stakes (<i>sledge/mallet</i>) # 16 smooth wire (<i>wire cutter</i>) Total cost for 100 sq ft	\$0 1 0-25 5 \$6 - \$36
Branch packing brush – willow, red-osier dogwood (<i>lopper/brush cutter/saw</i>) 10, 6’ live posts (3” diam.) or wooden 2x2” stakes (<i>sledge/mallet</i>) local soil source – weed-free (<i>shove/wheelbarrow</i>) Total cost for 20 sq ft	Cost/20 sq ft \$0 0-30 0-30 \$0 - \$60
Coco log 20 ft cocoa log (with shipping) 12 - 3 ft wooden 2x2 stakes (<i>sledge/mallet</i>) or 7 earth anchors (reuse) nylon cord (<i>scissors, knife</i>) Total cost for 20 linear feet	Cost/20 linear ft \$140 12-60 5 \$157 - \$205
Rock gabion tube (approximately 1’ diameter) 20 ft length of 4 ft wide chain link fencing (<i>wire cutter</i>) 4”-8” rock (<i>shovels</i>) tiger ties and/or #16 wire (<i>pliers/wire cutter</i>) geotextile, 10 wooden pegs (<i>scissors, hammer</i>) Total cost for 20 linear feet	Cost/20 linear ft \$30 60 5 5 \$100
Rock rip rap Cost for 20 linear feet (contractor installed)	Cost/20 linear ft \$800 - \$1,600

Restoration Plant Material Options

PLANT MATERIALS Cost will vary with location and supplier	COST/1000 sq ft (unless otherwise indicated)
Seed - native Grass (8-16 oz. @ \$1-2/oz.) Flower (2-4 oz. @ \$10-12/oz.)	\$8-48 \$20-48
Seed – cover crop Oats - annual grain (8 oz. @\$1/lb.) Canada wildrye – native perennial grass (8 oz. @ \$1/oz.)	\$0.50 \$8
Live stakes or Posts – willow or red-osier dogwood, 3-ft lengths, ½”-2” diameter Cut with volunteer labor Purchased from supplier	(Cost/stake or post) \$0 \$5
Herbaceous (plugs) – 1-year flowers and grasses in 4-, 6-, 8- or 12-pacs or multi-cells (48-96 plugs/flat) @ \$0.40-1.05/plug 1-foot spacing 1.5-foot spacing	\$400-\$1,050 \$178-\$466
Herbaceous (potted) – 2+ year flowers and grasses in individual containers can be planted at 1.5-foot (or greater) spacing 2.25” pots (\$0.95-1.85/plant @ 1.5 ft spacing) 4” pots (\$3.00-5.00/plant @ 2 ft spacing) 1-gal pots (\$8-\$13/plant @ 3 ft spacing)	\$422-\$822 \$750-\$1250 \$889-\$1444
Pre-vegetated mats – 2+ year plants well rooted in 11”x22” mats of soil in cocoa fiber erosion control blanket; with 6+ plants/mat Mat Stakes to anchor mat	(Cost/mat) \$15 \$1
Shrubs and Trees (bare root) - 2-year plants, sold in bundles of 25 @ \$0.75-\$1/plant 3-foot spacing 5-foot spacing 10-foot spacing	\$84-\$111 \$30-\$40 \$7.50-\$10
Shrubs and Trees (containerized) – 3+ year plants sold in individual containers 1-gallon 2-gallon 5-gallon 10-gallon (some nurseries price according to caliper of trunk)	(Cost/plant) (\$8-\$13) (\$12-\$24) (\$22-\$40) (\$73-\$81)
Trees (balled and burlapped) Deciduous tree (12’ height; 3” diam) Conifer tree (6’ height; 3” diam)	(Cost/plant) \$175-\$250 \$175-\$250
Transplants/salvage Hand-dug with volunteer labor Spade-dug (large tree/shrub)	(Cost/plant) (\$0) (\$500)