

Practice: 484 - Mulching

Scenario # 1 Natural Material - Full Coverage

Scenario Description: Actual Scenario # 1

New York

Application of straw mulch or other other state approved natural material to reduce erosion and facilitate the establishment of vegetative cover. Mulch provides full coverage and is typically used with critical area planting. Assumes 125 bales/acre (3 bales/1000 sq ft)

Before Practice Situation:

Typical scenario ranges from a 0.1 to 1.0 acre disturbed site around a newly constructed structural practice. The potential for soil erosion is high and mulch is needed to stabilize the soil and facilitate the establishment of vegetative cover.

After Practice Situation:

Straw mulch has been applied to areas needing mulch. Erosion and sedimentation is reduced, water and soil quality is protected, and vegetative cover is established.

Scenario Feature Measure:

Area Covered by Mulch

Scenario Typical Size:	1	Acre	Tot Unit Cost	\$535.81
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Straw	2.5	Ton	\$113.53	\$283.83
Equip./Install.	Truck, Pickup	0.5	Hour	\$40.77	\$20.39
Labor	General Labor	10	Hour	\$23.16	\$231.60

Total Cost: \$535.81

Payment types:

<u>PayType</u>	<u>Unit Payment</u>	<u>PayType</u>	<u>Unit Payment</u>
EQIP	\$401.86	EQIP-HU	\$482.23
WHIP	\$401.86	WHIP-HU	\$482.23

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Scenario # 2 Natural Material - Partial Coverage

Scenario Description: Actual Scenario # 2

New York

Application of straw mulch or other other state approved natural material (such as wood chips, compost, or hay) to reduce erosion, moderate soil temperature and suppress weeds. Typically used to provide partial coverage (either in-row or between rows) to suppress weeds. Payment based on total acres mulched, assuming 3-5 ft. swatch and 10-12 ft. row spacing.

Before Practice Situation:

Site conditions vary. Typically scenarios include new tree and shrub plantings, irrigated orchards or vineyards, or annual and perennial specialty crops. Water quantity and soil moisture is a concern.

After Practice Situation:

Straw or other natural mulch is applied in rows by hand or by mechanized means. Soil moisture is conserved, energy use associated with irrigation is decreased, and weed growth is suppressed.

Scenario Feature Measure:

Total Acres Mulched

Scenario Typical Size:	10	Acre	Tot Unit Cost	\$53.27
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Straw	2.5	Ton	\$113.53	\$283.83
Equip./Install.	Tractor, agricultural, 60 HP	5	Hour	\$25.72	\$128.60
Labor	Equipment Operators, Light	5	Hour	\$24.05	\$120.25

Total Cost: \$532.68

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$39.95	EQIP-HU	\$47.94
WHIP	\$39.95	WHIP-HU	\$47.94

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Scenario # 3 Tree and Shrub

Scenario Description: Actual Scenario # 5

New York

Weed barrier fabric or other suitable natural or synthetic mulch is installed with a new tree and shrub planting. Typically used to prevent weed competition during the installation of conservation practices. Rate is per tree/shrub and assumes 1 square yard of weed barrier fabric and 5 staples/tree.

Before Practice Situation:

Site conditions vary. Typical scenario is an installation of 100 native trees and shrubs to enhance wildlife habitat. Sites are often remote and trees may not be planted in rows, requiring each tree to be mulched individually

After Practice Situation:

Weed barrier fabric squares are installed with 5 sod staples each, around individual trees and shrubs to control weed competition. Weeds are controlled and tree/shrub growth is minimally influenced by weed competition.

Scenario Feature Measure:

Number of Trees Mulched

Scenario Typical Size:	100	Each	Tot Unit Cost	\$2.48
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Geotextile, woven	100	Square Yard	\$2.48	\$248.00

Payment types:

Total Cost: \$248.00

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$1.86	EQIP-HU	\$2.23
WHIP	\$1.86	WHIP-HU	\$2.23