

**Practice: 460 - Land Clearing**

**Scenario: #2 - Non-Heavy Equipment**

**Scenario Description:**

Site preparation of a field with a labor crew, chainsaws, chippers or similar equipment removing trees and shrubs to achieve a conservation objective. Typical scenario is approximately 1 acre of trees and shrubs to be cleared. The resource concern is determined by the conservation objective met with the final practice applied to the field.

**Before Situation:**

Forested field of approximately 1 acre, with moderate density evenly spaced tree canopy.

**After Situation:**

Labor crew uses chainsaws, chippers, or similar equipment to clear trees and prepare the field for a conservation objective, includes on-site disposal as necessary. Associated practices, like plantings, other structures, or irrigation/drainage water management practices, would be contracted separately as needed.

**Scenario Feature Measure:** Area Cleared

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$599.05

**Scenario Cost/Unit:** \$599.05

**Cost Details (by category):**

| Component Name                     | ID   | Component Description  | Unit | Price (\$/unit) | Quantity | Cost     |
|------------------------------------|------|--|------|-----------------|----------|----------|
| <b>Equipment/Installation</b>      |      |  |      |                 |          |          |
| Chainsaw                           | 937  | Equipment and power unit costs. Labor not included.  | Hour | \$4.85          | 24       | \$116.40 |
| <b>Labor</b>                       |      |  |      |                 |          |          |
| General Labor                      | 231  | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.57         | 24       | \$445.68 |
| <b>Mobilization</b>                |      |  |      |                 |          |          |
| Mobilization, very small equipment | 1137 | Equipment that is small enough to be transported by a pick-up truck with typical weights less than 3,500 pounds. Can be multiple pieces of equipment if all hauled simultaneously.                   | Each | \$36.97         | 1        | \$36.97  |

**Practice: 460 - Land Clearing**

**Scenario: #2 - Heavy Equipment**

**Scenario Description:**

Site preparation of a field with dozer or equivalent heavy equipment to achieve a conservation objective. Typical scenario is approximately 10 acres of trees and shrubs to be cleared. The resource concern is determined by the conservation objective met with the final practice applied to the field.

**Before Situation:**

Forested field of approximately 10 acres, with moderate density evenly spaced tree canopy.

**After Situation:**

Crew uses 200 HP dozer to clear trees and prepare field for conservation objective, includes on-site debris disposal as necessary. Associated practices, like plantings, other structures, or irrigation/drainage water management practices, would be contracted separately as needed.

**Scenario Feature Measure:** Area Cleared

**Scenario Unit:** Acre

**Scenario Typical Size:** 10

**Scenario Cost:** \$7,548.91

**Scenario Cost/Unit:** \$754.89

**Cost Details (by category):**

| Component Name                | ID   | Component Description  | Unit | Price (\$/unit) | Quantity | Cost       |
|-------------------------------|------|--|------|-----------------|----------|------------|
| <b>Equipment/Installation</b> |      |  |      |                 |          |            |
| Dozer, 200 HP                 | 928  | Track mounted Dozer with horsepower range of 160 to 250. Equipment and power unit costs. Labor not included.   | Hour | \$138.29        | 40       | \$5,531.60 |
| <b>Labor</b>                  |      |  |      |                 |          |            |
| General Labor                 | 231  | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.57         | 40       | \$742.80   |
| Equipment Operators, Heavy    | 233  | Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.                                | Hour | \$25.62         | 40       | \$1,024.80 |
| <b>Mobilization</b>           |      |  |      |                 |          |            |
| Mobilization, large equipment | 1140 | Equipment >150HP or typical weights greater than 30,000 pounds or loads requiring over width or over length permits.   | Each | \$249.71        | 1        | \$249.71   |

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**Scenario: #3 - Clearing for GSS**

**Scenario Description:**

Site preparation of a gully with track hoe, dozer or equivalent equipment to install a structural conservation practice, typically a 410 grade stabilization structure. Typical scenario is approximately 1 acres of trees and shrubs to be cleared on a high bank adjacent to a water body and/or gully. Woody debris removal often necessary. Does not address excavation required for practice installation. The resource concern is determined by the conservation objective met with the final practice applied to the field.

**Before Situation:**

Wooded field edge of approximately 1.0 acres, with moderate density evenly spaced tree canopy on a high bank adjacent to a gully or water body. Fallen trees must often be removed.

**After Situation:**

Crew uses 160 HP dozer or track hoe to clear trees and prepare site for conservation practice installation, includes on-site debris disposal as necessary. Associated practices, like plantings, other structures, or irrigation/drainage water management practices, would be contracted separately as needed.

**Scenario Feature Measure: Area Cleared**

**Scenario Unit:** Acre

**Scenario Typical Size:** 1

**Scenario Cost:** \$1,531.13

**Scenario Cost/Unit:** \$1,531.13

**Cost Details (by category):**

| Component Name                 | ID   | Component Description  | Unit | Price (\$/unit) | Quantity | Cost     |
|--------------------------------|------|--|------|-----------------|----------|----------|
| <b>Equipment/Installation</b>  |      |  |      |                 |          |          |
| Skidsteer, 80 HP               | 933  | Skidsteer loader with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.  | Hour | \$31.28         | 4        | \$125.12 |
| Dozer, 140 HP                  | 927  | Track mounted Dozer with horsepower range of 125 to 160. Equipment and power unit costs. Labor not included.   | Hour | \$90.94         | 7        | \$636.58 |
| <b>Labor</b>                   |      |  |      |                 |          |          |
| Equipment Operators, Heavy     | 233  | Includes: Cranes, Hydraulic Excavators >=50 HP, Dozers, Paving Machines, Rock Trenchers, Trenchers >=12", Dump Trucks, Ag Equipment >=150 HP, Scrapers, Water Wagons.                                | Hour | \$25.62         | 7        | \$179.34 |
| Equipment Operators, Light     | 232  | Includes: Skid Steer Loaders, Hydraulic Excavators <50 HP, Trenchers <12", Ag Equipment <150 HP, Pickup Trucks, Forklifts, Mulchers  | Hour | \$19.22         | 4        | \$76.88  |
| General Labor                  | 231  | Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc. | Hour | \$18.57         | 7        | \$129.99 |
| <b>Mobilization</b>            |      |  |      |                 |          |          |
| Mobilization, large equipment  | 1140 | Equipment >150HP or typical weights greater than 30,000 pounds or loads requiring over width or over length permits.   | Each | \$249.71        | 1        | \$249.71 |
| Mobilization, medium equipment | 1139 | Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.  | Each | \$133.51        | 1        | \$133.51 |