

Practice: 338 - Prescribed Burning

Scenario: #1 - Understory Burn

Scenario Description:

Prescribed burning is accomplished in 20 acre increments to limit the off-site disruption of the burn. The burn is managed to keep the fire cool enough to not cause mortality to residulate stand, but also to burn hot enough to reduce the understory accumulation of residues. The prescribed burn is applied according to a designed burn plan and the NRCS prescribed burning (338) standard. The fire hazard is reduced by reducing the fuel load available in the understory.

Associated Practice(s): Firebreak(394)

Before Situation:

An over accumulation of undersirable vegetation in the understory has a substantial wildfire risk due to the fuel load available in the understory. Leaf litter and debris are present throughout the stand. Competing and/or invasive species are hindering growth of desirable species.

After Situation:

A licensed entity implements a prescribed burn on 20 acres to enhance the native species stand and reduce wildfire risks. The prescribed burn controls competing and/or invasive species. Growing conditions are altered to enhance health and productivity of the more desirable plants.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 20

Scenario Cost: \$1,722.64

Scenario Cost/Unit: \$86.13

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|------------------------------------|------|---|--------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$37.72 | 8 | \$301.76 |
| All terrain vehicles, ATV | 965 | Includes equipment, power unit and labor costs. | Hour | \$31.09 | 8 | \$248.72 |
| Water tank, portable | 1602 | Portable water tank transported in a pick up truck. Typically with 200 gallon capacity includes tank with pump, hose and sprayer. Does not include the pickup truck. Equipment only. | Hour | \$2.62 | 8 | \$20.96 |
| Labor | | | | | | |
| Skilled Labor | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | Hour | \$39.79 | 16 | \$636.64 |
| Supervisor or Manager | 234 | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$42.74 | 4 | \$170.96 |
| Specialist Labor | 235 | Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services. | Hour | \$96.17 | 2 | \$192.34 |
| Materials | | | | | | |
| Fuel, ignition fuel mixture | 1596 | Mixture of gasoline and diesel for ignition of prescribed burns. Materials only. | Gallon | \$3.99 | 2 | \$7.98 |
| Mobilization | | | | | | |
| 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 | \$71.64 | 2 | \$143.28 |

Practice: 338 - Prescribed Burning

Scenario: #2 - Site Preparation

Scenario Description:

A prescribed burn is implemented on a 5 acre site to eliminate the existing competition and debris to prepare site for planting, seeding, or permit natural seeding. A small 5 acre opening is created to promote a forest savannah habit within a forest that maintains early successional habitat for wildlife. Multiple sites are typically created throughout a management area. Small sites require intense management to ensure desired objectives are met and to reduce risk within forest stand.

Associated Practice(s): Firebreak(394), Early Successional Habitat/Management (647), Upland Wildlife Habitat Management (645)

Before Situation:

A site that was recently managed to remove the overstory has remaining slash, brush and grasses that dominate the site providing inadequate cover/shelter and food for desired wildlife species.

After Situation:

A prescribed burn is implemented on the 5 acre site to eliminate the existing competition and debris. The grass, competing brush, and downed slash leftover from forestry activities are managed through the burn. Some bare ground is exposed. The burn alters the site to create forest openings. The burn prepares the site for seeding of early successional habitat or planting of desired vegetation. The altered site conditions promote growth of desired species to create a diverse plant community with adequate food and cover for wildlife.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 5

Scenario Cost: \$932.96

Scenario Cost/Unit: \$186.59

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|------------------------------------|------|---|--------|-----------------|----------|----------|
| Equipment/Installation | | | | | | |
| All terrain vehicles, ATV | 965 | Includes equipment, power unit and labor costs. | Hour | \$31.09 | 4 | \$124.36 |
| Water tank, portable | 1602 | Portable water tank transported in a pick up truck. Typically with 200 gallon capacity includes tank with pump, hose and sprayer. Does not include the pickup truck. Equipment only. | Hour | \$2.62 | 4 | \$10.48 |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$37.72 | 4 | \$150.88 |
| Labor | | | | | | |
| Supervisor or Manager | 234 | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$42.74 | 2 | \$85.48 |
| Specialist Labor | 235 | Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services. | Hour | \$96.17 | 1 | \$96.17 |
| Skilled Labor | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | Hour | \$39.79 | 8 | \$318.32 |
| Materials | | | | | | |
| Fuel, ignition fuel mixture | 1596 | Mixture of gasoline and diesel for ignition of prescribed burns. Materials only. | Gallon | \$3.99 | 1 | \$3.99 |
| Mobilization | | | | | | |
| 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 | \$71.64 | 2 | \$143.28 |

Practice: 338 - Prescribed Burning

Scenario: #3 - Herbaceous Fuel

Scenario Description:

A prescribed burn is applied on 50 acres according to a design burn plan and the NRCS Prescribed Burning standard and specifications to control undesirable species, improve wildlife habitat, improve plant productivity and/or quality, and maintain ecological processes. A typical 50 acre parcel with herbaceous and/or low volatile woody fuel with no high volatile fuels is burned. Burned firebreaks used to achieve total firebreak width are part of these burns, but the construction of the firebreak is not included.

Associated Practice(s): Firebreak (394) Upland Wildlife Management Habitat Management (645)

Before Situation:

A parcel of land with herbaceous fuel and/ or low volatile woody fuel with no high volatile fuels has undesirable plant composition due to reduced plant vigor, competing and invasive species, or improper livestock distribution.

After Situation:

The desirable plant composition is restored, plant vigor improved and invasive species reduced. Habitat component for wildlife is improved.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 50

Scenario Cost: \$1,945.76

Scenario Cost/Unit: \$38.92

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|---|--------|-----------------|----------|----------|
| Acquisition of Technical Knowledge | | | | | | |
| Training, Workshops | 294 | Educational seminar or series of meetings emphasizing interaction and exchange of information among a usually small number of participants. | Each | \$44.18 | 1 | \$44.18 |
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$37.72 | 8 | \$301.76 |
| All terrain vehicles, ATV | 965 | Includes equipment, power unit and labor costs. | Hour | \$31.09 | 8 | \$248.72 |
| Water tank, portable | 1602 | Portable water tank transported in a pick up truck. Typically with 200 gallon capacity includes tank with pump, hose and sprayer. Does not include the pickup truck. Equipment only. | Hour | \$2.62 | 8 | \$20.96 |
| Labor | | | | | | |
| Specialist Labor | 235 | Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services. | Hour | \$96.17 | 2 | \$192.34 |
| Skilled Labor | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | Hour | \$39.79 | 16 | \$636.64 |
| Supervisor or Manager | 234 | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$42.74 | 8 | \$341.92 |
| Materials | | | | | | |
| Fuel, ignition fuel mixture | 1596 | Mixture of gasoline and diesel for ignition of prescribed burns. Materials only. | Gallon | \$3.99 | 4 | \$15.96 |
| Mobilization | | | | | | |
| 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 | \$71.64 | 2 | \$143.28 |

Practice: 338 - Prescribed Burning

Scenario: #4 - Volatile fuels < 4 ft tall

Scenario Description:

A prescribed burn is applied on 50 acres according to a design burn plan and the NRCS Prescribed Burning standard and specifications to control undesirable species, improve wildlife habitat, improve plant productivity and/or quality, and maintain ecological processes. A typical 50 acre parcel with herbaceous and/or low volatile woody fuel and high volatile woody fuels less than 4 feet tall are burned. Burned firebreaks used to achieve total firebreak width are part of these burns, but the construction of the firebreak is not included.

Associated Practice(s): Firebreak (394) Upland Wildlife Habitat Management (645)

Before Situation:

A parcel of land with herbaceous fuel and/ or low volatile woody fuel and high volatile woody fuels less than 4 feet tall has undesirable plant composition due to reduced plant vigor, competing and invasive species, or improper livestock distribution.

After Situation:

The desirable plant composition is restored, plant vigor improved and invasive species reduced. Forage production and quality for livestock and /or wildlife is improved.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 50

Scenario Cost: \$2,531.21

Scenario Cost/Unit: \$50.62

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|---|--------|-----------------|----------|----------|
| Acquisition of Technical Knowledge | | | | | | |
| Training, Workshops | 294 | Educational seminar or series of meetings emphasizing interaction and exchange of information among a usually small number of participants. | Each | \$44.18 | 1 | \$44.18 |
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$37.72 | 8 | \$301.76 |
| All terrain vehicles, ATV | 965 | Includes equipment, power unit and labor costs. | Hour | \$31.09 | 8 | \$248.72 |
| Water tank, portable | 1602 | Portable water tank transported in a pick up truck. Typically with 200 gallon capacity includes tank with pump, hose and sprayer. Does not include the pickup truck. Equipment only. | Hour | \$2.62 | 8 | \$20.96 |
| Labor | | | | | | |
| Skilled Labor | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | Hour | \$39.79 | 24 | \$954.96 |
| Supervisor or Manager | 234 | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$42.74 | 12 | \$512.88 |
| Specialist Labor | 235 | Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services. | Hour | \$96.17 | 3 | \$288.51 |
| Materials | | | | | | |
| Fuel, ignition fuel mixture | 1596 | Mixture of gasoline and diesel for ignition of prescribed burns. Materials only. | Gallon | \$3.99 | 4 | \$15.96 |
| Mobilization | | | | | | |
| 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 | \$71.64 | 2 | \$143.28 |

Practice: 338 - Prescribed Burning

Scenario: #5 - Volatile fuels > 4 ft tall

Scenario Description:

A prescribed burn is applied on 50 acres according to a design burn plan and the NRCS Prescribed Burning standard and specifications to control undesirable species, improve wildlife habitat, improve plant productivity and/or quality, and maintain ecological processes. A typical 50 acre parcel with herbaceous and/or low volatile woody fuel and high volatile woody fuels greater than 4 feet tall are burned. Burned firebreaks used to achieve total firebreak width are part of these burns, but the construction of the firebreak is not included.

Associated Practice(s): Firebreak (394), Upland Wildlife Habitat Management (645)

Before Situation:

A parcel of land with herbaceous fuel and/ or low volatile woody fuel and high volatile woody fuels greater than 4 feet tall has undesirable plant composition due to reduced plant vigor, competing and invasive species, or improper livestock distribution.

After Situation:

The desirable plant composition is restored, plant vigor improved and invasive species reduced. Forage production and quality for livestock and /or wildlife is improved.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 50

Scenario Cost: \$3,104.03

Scenario Cost/Unit: \$62.08

Cost Details (by category):

| Component Name | ID | Component Description | Unit | Price (\$/unit) | Quantity | Cost |
|---|------|---|--------|-----------------|----------|----------|
| Acquisition of Technical Knowledge | | | | | | |
| Training, Workshops | 294 | Educational seminar or series of meetings emphasizing interaction and exchange of information among a usually small number of participants. | Each | \$44.18 | 2 | \$88.36 |
| Equipment/Installation | | | | | | |
| Truck, Pickup | 939 | Equipment and power unit costs. Labor not included. | Hour | \$37.72 | 8 | \$301.76 |
| All terrain vehicles, ATV | 965 | Includes equipment, power unit and labor costs. | Hour | \$31.09 | 8 | \$248.72 |
| Trailer, water tank | 1598 | Mobile 5,000 gal water tank mounted on a trailer. Equipment only. Does not include towing equipment. | Hour | \$20.32 | 8 | \$162.56 |
| Water tank, portable | 1602 | Portable water tank transported in a pick up truck. Typically with 200 gallon capacity includes tank with pump, hose and sprayer. Does not include the pickup truck. Equipment only. | Hour | \$2.62 | 12 | \$31.44 |
| Labor | | | | | | |
| Skilled Labor | 230 | Labor requiring a high level skill set: Includes carpenters, welders, electricians, conservation professionals involved with data collection, monitoring, and or record keeping, etc. | Hour | \$39.79 | 24 | \$954.96 |
| Supervisor or Manager | 234 | Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc. | Hour | \$42.74 | 12 | \$512.88 |
| Specialist Labor | 235 | Labor requiring a specialized skill set: Includes Agronomists, Foresters, Biologists, etc. to provide additional technical information during the planning and implementation of the practice. Does not include NRCS or TSP services. | Hour | \$96.17 | 4 | \$384.68 |
| Materials | | | | | | |
| Fuel, ignition fuel mixture | 1596 | Mixture of gasoline and diesel for ignition of prescribed burns. Materials only. | Gallon | \$3.99 | 4 | \$15.96 |
| Mobilization | | | | | | |
| 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 | \$71.64 | 2 | \$143.28 |

Mobilization

| | | | | | | |
|--------------------------------|------|---|------|----------|---|----------|
| Mobilization, medium equipment | 1139 | Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds. | Each | \$259.43 | 1 | \$259.43 |
|--------------------------------|------|---|------|----------|---|----------|