

Practice: 338 - Prescribed Burning

Scenario: #1 - Forestry Burn

Scenario Description:

Applying a prescribed burn according to designed burn plan and NRCS Prescribed Burning (338) standard and specifications. A prescribed burn can consume debris (understory and/or residual debris after a timber harvest) or leaf litter under controlled conditions that otherwise could burn uncontrollably and devastatingly. Burn should be cool enough to not cause mortality to residual stand but also must reduce litter and debris. Treating areas to encourage natural seeding, permit reforestation by planting or promote growth of desirable vegetation. Burning is utilized to eliminate existing competition and debris, reduce forest fuel and to prepare the site for planting or seeding.(Constructed firebreak cost is not included in cost of burn. Refer to Firebreak (394) standard and cost scenarios). Resource concerns include: Plant productivity, health and vigor, reduce wildfire hazards, Wildlife - inadequate food, and cover; Air Quality - Airborne Sediment and Smoke. Burning a cutover site helps prepare the site for replanting. Burn should expose a portions of bare soil for planting. Objectives of a site preparation burn may dictate timing and burn intensity. Firebreaks are not included in the cost of the site prep. burn, see Firebreaks (394) for firebreak construction. Resource concerns include: Plants productivity, health and vigor, Air Quality- smoke, Plant adaptability to the site.

Before Situation:

Area to be burned has had a portion of the over story removed. Slash, brush and grasses dominate the site. This is forestry site preparation.

After Situation:

Area to be planted has been burned to remove grass, reduce competing brush and remove downed slash leftover from forestry activities either scattered or pushed into windrows or piles. Some bare ground is temporarily exposed improving the site for planting.

Scenario Feature Measure: Acres planned

Scenario Unit: Acre

Scenario Typical Size: 80

Scenario Cost: \$3,403.74

Scenario Cost/Unit: \$42.55

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	\$31.63	10	\$316.30
Dozer, 80 HP	929	Track mounted Dozer with horsepower range of 60 to 90. Equipment and power unit costs. Labor not included.	Hour	\$57.18	12	\$686.16
All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$26.07	10	\$260.70
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	\$2.19	10	\$21.90
Trailer, water tank	1598	Mobile 5,000 gal water tank mounted on a trailer. Equipment only. Does not include towing equipment.	Hour	\$17.04	10	\$170.40
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	\$37.95	10	\$379.50
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	\$18.11	20	\$362.20
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	\$25.07	40	\$1,002.80
Materials						
Fuel, ignition fuel mixture	1596	Mixture of gasoline and diesel for ignition of prescribed burns. Materials only.	Gallon	\$3.99	40	\$159.60

Practice: 338 - Prescribed Burning

Scenario: #4 - Level Terrain, Herbaceous Fuel

Scenario Description:

Application of a prescribed burn by landowners or burn association according to designed burn plan and NRCS Prescribed Burning (338) standard and specifications to control undesirable species, improve wildlife habitat, improve plant productivity and/or quality, facilitate grazing distribution and maintain ecological processes. This scenario is based on a burn area of less than 640 acres and applies under the following conditions: where the terrain of the majority of the area to be burned <15% slopes with herbaceous and/or low volatile woody fuel. Level nature of burn unit typically can be completed in one day. Burned firebreaks are used to achieve total firebreak width are part of these burns. (Constructed firebreak cost is not included in cost of burn. Refer to Firebreak (394) standard and cost scenarios)

Before Situation:

A <640 acre field is lacking due to reduced plant vigor, invasive species or improper livestock distribution that are caused by the lack of ecological processes that are initiated by burning. Burn unit is steep

After Situation:

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:

Scenario Unit: Acre

Scenario Typical Size: 160

Scenario Cost: \$1,518.41

Scenario Cost/Unit: \$9.49

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						
All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$26.07	12	\$312.84
Trailer, water tank	1598	Mobile 5,000 gal water tank mounted on a trailer. Equipment only. Does not include towing equipment.	Hour	\$17.04	4	\$68.16
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	\$2.19	4	\$8.76
Truck, Pickup	939	Equipment and power unit costs. Labor not included.	Hour	\$31.63	4	\$126.52
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	\$25.07	12	\$300.84
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	\$37.95	6	\$227.70
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	\$18.11	16	\$289.76
Materials						
Fuel, ignition fuel mixture	1596	Mixture of gasoline and diesel for ignition of prescribed burns. Materials only.	Gallon	\$3.99	35	\$139.65

Practice: 338 - Prescribed Burning

Scenario: #5 - Steep Terrain, Herbaceous Fuel

Scenario Description:

Application of a prescribed burn by landowners or burn association according to designed burn plan and NRCS Prescribed Burning (338) standard and specifications to control undesirable species, improve wildlife habitat, improve plant productivity and/or quality, facilitate grazing distribution and maintain ecological processes. This scenario is based on a burn area of more than 640 acres and applies under the following conditions: where the terrain of the majority of the area to be burned is >15% slopes, conditions typically involve more than one day, and fuels are herbaceous and/or low volatile woody fuel. One day for putting in the firelines and another day to complete the burning to the entire unit. Burned firebreaks used to achieve total firebreak width are part of these burns. (Constructed firebreak cost is not included in cost of burn. Refer to Firebreak (394) standard and cost scenarios)

Before Situation:

A >640 acre field is lacking due to reduced plant vigor, invasive species or improper livestock distribution that are caused by the lack of ecological processes that are initiated by burning.

After Situation:

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:

Scenario Unit: Acre

Scenario Typical Size: 160

Scenario Cost: \$3,113.91

Scenario Cost/Unit: \$19.46

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	\$31.63	16	\$506.08
All terrain vehicles, ATV	965	Includes equipment, power unit and labor costs.	Hour	\$26.07	16	\$417.12
Trailer, water tank	1598	Mobile 5,000 gal water tank mounted on a trailer. Equipment only. Does not include towing equipment.	Hour	\$17.04	16	\$272.64
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	\$2.19	16	\$35.04
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	\$25.07	32	\$802.24
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	\$18.11	16	\$289.76
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	\$37.95	16	\$607.20
Materials						
Fuel, ignition fuel mixture	1596	Mixture of gasoline and diesel for ignition of prescribed burns. Materials only.	Gallon	\$3.99	35	\$139.65