

Practice: 338 - Prescribed Burning

Scenario # 1 Understory Burn

Scenario Description: Actual Scenario # 1

New York

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 Practice 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 Practice 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 Typical Size:	20	Acre	Tot Unit Cost	\$90.66
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fuel, ignition fuel mixture	2	Gallon	\$3.82	\$7.64
Equip./Install.	Truck, Pickup	8	Hour	\$40.77	\$326.16
Equip./Install.	All terrain vehicles, ATV	8	Hour	\$33.68	\$269.44
Equip./Install.	Water tank, portable	8	Hour	\$2.83	\$22.64
Labor	Skilled Labor	16	Hour	\$39.82	\$637.12
Labor	Supervisor or Manager	4	Hour	\$45.77	\$183.08
Labor	Specialist Labor	2	Hour	\$105.46	\$210.92
Mobilization	Mobilization, very small equipment	2	Each	\$78.08	\$156.16

Payment types:

Total Cost: \$1,813.16

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$67.99	EQIP-HU	\$81.59
WHIP	\$67.99	WHIP-HU	\$81.59

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Scenario # 2 Site Preparation

Scenario Description: Actual Scenario # 2

New York

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 Practice 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 Practice 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 Typical Size:	5	Acre	Tot Unit Cost	\$196.93
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fuel, ignition fuel mixture	1	Gallon	\$3.82	\$3.82
Equip./Install.	Truck, Pickup	4	Hour	\$40.77	\$163.08
Equip./Install.	All terrain vehicles, ATV	4	Hour	\$33.68	\$134.72
Equip./Install.	Water tank, portable	4	Hour	\$2.83	\$11.32
Labor	Skilled Labor	8	Hour	\$39.82	\$318.56
Labor	Supervisor or Manager	2	Hour	\$45.77	\$91.54
Labor	Specialist Labor	1	Hour	\$105.46	\$105.46
Mobilization	Mobilization, very small equipment	2	Each	\$78.08	\$156.16

Total Cost: \$984.66

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$147.70	EQIP-HU	\$177.24
WHIP	\$147.70	WHIP-HU	\$177.24

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Scenario # 3 Herbaceous Fuel

Scenario Description: Actual Scenario # 3

New York

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 Practice 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 Practice 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 Typical Size:	50	Acre	Tot Unit Cost	\$40.91
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fuel, ignition fuel mixture	4	Gallon	\$3.82	\$15.28
Equip./Install.	Truck, Pickup	8	Hour	\$40.77	\$326.16
Equip./Install.	All terrain vehicles, ATV	8	Hour	\$33.68	\$269.44
Equip./Install.	Water tank, portable	8	Hour	\$2.83	\$22.64
Labor	Skilled Labor	16	Hour	\$39.82	\$637.12
Labor	Supervisor or Manager	8	Hour	\$45.77	\$366.16
Labor	Specialist Labor	2	Hour	\$105.46	\$210.92
Mobilization	Mobilization, very small equipment	2	Each	\$78.08	\$156.16
Acq. Tech. Know.	Training, Workshops	1	Each	\$41.42	\$41.42

Payment types:

Total Cost: \$2,045.30

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$30.68	EQIP-HU	\$36.82
WHIP	\$30.68	WHIP-HU	\$36.82

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Scenario # 4 Volatle fuels < 4 ft tall

Scenario Description: Actual Scenario # 4

New York

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 Practice 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 Practice 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 Typical Size:	50	Acre	Tot Unit Cost	\$53.05
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fuel, ignition fuel mixture	4	Gallon	\$3.82	\$15.28
Equip./Install.	Truck, Pickup	8	Hour	\$40.77	\$326.16
Equip./Install.	All terrain vehicles, ATV	8	Hour	\$33.68	\$269.44
Equip./Install.	Water tank, portable	8	Hour	\$2.83	\$22.64
Labor	Skilled Labor	24	Hour	\$39.82	\$955.68
Labor	Supervisor or Manager	12	Hour	\$45.77	\$549.24
Labor	Specialist Labor	3	Hour	\$105.46	\$316.38
Mobilization	Mobilization, very small equipment	2	Each	\$78.08	\$156.16
Acq. Tech. Know.	Training, Workshops	1	Each	\$41.42	\$41.42

Total Cost: \$2,652.40

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$39.79	EQIP-HU	\$47.74
WHIP	\$39.79	WHIP-HU	\$47.74

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Scenario # 5 Volatile fuels > 4 ft tall

Scenario Description: Actual Scenario # 5

New York

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 Practice 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 Practice 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 Typical Size:	50	Acre	Tot Unit Cost	\$65.38
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Fuel, ignition fuel mixture	4	Gallon	\$3.82	\$15.28
Equip./Install.	Truck, Pickup	8	Hour	\$40.77	\$326.16
Equip./Install.	All terrain vehicles, ATV	8	Hour	\$33.68	\$269.44
Equip./Install.	Trailer, water tank	8	Hour	\$21.96	\$175.68
Equip./Install.	Water tank, portable	12	Hour	\$2.83	\$33.96
Labor	Skilled Labor	24	Hour	\$39.82	\$955.68
Labor	Supervisor or Manager	12	Hour	\$45.77	\$549.24
Labor	Specialist Labor	4	Hour	\$105.46	\$421.84
Mobilization	Mobilization, very small equipment	2	Each	\$78.08	\$156.16
Mobilization	Mobilization, medium equipment	1	Each	\$282.78	\$282.78
Acq. Tech. Know.	Training, Workshops	2	Each	\$41.42	\$82.84

Payment types:				Total Cost:	\$3,269.06
	<u>PayType</u>	<u>Unit Payment</u>		<u>PayType</u>	<u>Unit Payment</u>
	EQIP	\$49.04		EQIP-HU	\$58.84
	WHIP	\$49.04		WHIP-HU	\$58.84