

Practice: 394 - Firebreak

Scenario # 1 Constructed - Light Equipment

Scenario Description:

Missouri

Installation of a bare-ground firebreak of a minimum width of 15' around a 20 acre field/farm using farm equipment (2 passes). Generally water control devices such as water bars are not needed due either to the lack of steep terrain or the temporary nature of the firebreak. Resource concerns include Wildfire hazard from excessive biomass accumulation, Undesirable plant productivity and health, Inadequate plant structure and composition, and Habitat degradation.

Before Practice Situation:

Tract, field, or farm lacks adequate firebreaks to either reduce the spread of wildfires or contain a prescribed burn. Installation will be accomplished by making two passes with the use of typical farm equipment such as tractors, plows, disks, or similar implements.

After Practice Situation:

The property is adequately protected from wildfire or can be safely prescribe burned.

Scenario Feature Measure:

Length of firebreak

Scenario Typical Size:	4000	Foot	Tot Unit Cost	\$0.03
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Tillage, Light	2	Acre	\$10.29	\$20.58
Equip./Install.	Tillage, Primary	2	Acre	\$15.60	\$31.20
Mobilization	Mobilization, very small equipment	1	Each	\$55.50	\$55.50
Total Cost:					\$107.28

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$0.02	EQIP-HU	\$0.02
WHIP	\$0.02	WHIP-HU	\$0.02
EQIP-NOI	\$0.02	EQIP-HUNOI	\$0.02
EQIP-CCPI	\$0.02	EQIP-HUCCPI	\$0.02

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Scenario # 2 Constructed - Medium equipment

Scenario Description:

Missouri

Use of equipment such as small dozers to blade bare-soil firebreaks on slopes greater than 15%. Water control devices such as water bars placed at approximately 15 to 25 per 1,000 ft section of firebreak, are necessary to control erosion. These will be installed with the same equipment. Resource concerns include Wildfire hazard from excessive biomass accumulation, Undesirable plant productivity and health, Inadequate plant structure and composition, Habitat degradation, Soil erosion, and Excessive sediment in surface waters.

Before Practice Situation:

Tract, field, or farm lacks adequate firebreaks to either reduce the spread of wildfires or contain a prescribed burn. Conditions such as topography, the presence of brush and trees, etc. make the use of typical farm equipment impractical. As slopes increase, the potential for excessive erosion increases from soil disturbances. Therefore the installation of water control devices such as water bars will be important in protecting the resource base.

After Practice Situation:

The property is adequately protected from wildfire or can be safely prescribe burned and the potential for excessive erosion from the firebreak is minimized.

Scenario Feature Measure:

Length of firebreak

Scenario Typical Size:

1000	Foot	Tot Unit Cost	\$1.16
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Water Bars	425	Foot	\$1.40	\$595.00
Equip./Install.	Dozer, 80 HP	4	Hour	\$57.19	\$228.76
Labor	Equipment Operators, Heavy	4	Hour	\$27.22	\$108.88
Mobilization	Mobilization, Heavy Equipment Operator	1	Hour	\$26.97	\$26.97
Mobilization	Mobilization, medium equipment	1	Each	\$200.43	\$200.43

Total Cost: \$1,160.04

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$0.87	EQIP-HU	\$1.04
WHIP	\$0.87	WHIP-HU	\$1.04
EQIP-NOI	\$0.87	EQIP-HUNOI	\$1.04
EQIP-CCPI	\$0.87	EQIP-HUCCPI	\$1.04

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Scenario # 3 Vegetated permanent firebreak

Missouri

Scenario Description:

Establishing a 20 foot wide strip of permanent vegetation that will serve as a green firebreak. Scenario includes clearing the site, preparing the seedbed, seeding (typically cool season grasses and/or legumes), and applying needed soil amendments. Clearing will be achieved with the use of a bush hog or similar equipment. Seedbed preparation and vegetation establishment will be accomplished with farm equipment. Soil amendments will be applied according to local FOTG guidance. This scenario does not include follow-up maintenance operations such as weed control, mowing, etc. Resource concerns include Wildfire hazard from excessive biomass accumulation, Soil erosion, and Excessive sediment in surface waters.

Before Practice Situation:

Tract, field, or farm lacks adequate firebreaks to either reduce the spread of wildfires or contain a prescribed burn.

After Practice Situation:

The property is adequately protected from wildfire or can be safely prescribe burned. Wildlife habitat will also be enhanced and the potential for erosion from the firebreak is minimized.

Scenario Feature Measure:

Length of firebreak

Scenario Typical Size:	3000	Foot	Tot Unit Cost	\$0.26
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Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Materials	Orchard Grass (<i>Dactylis glomerata</i>)	2	Pound	\$2.04	\$4.08
Materials	Alsike Clover (<i>Trifolium hybridum</i>)	2	Pound	\$3.06	\$6.12
Materials	Wild Rye, Canada (<i>Elymus canadensis</i>)	2.5	Pound	\$9.32	\$23.30
Materials	Phosphorus, P2O5	60	Pound	\$0.66	\$39.60
Materials	Red Clover (<i>Trifolium pratense</i>)	3	Pound	\$2.60	\$7.80
Materials	Nitrogen (N), Urea	30	Pound	\$0.60	\$18.00
Materials	Potassium, K2O	60	Pound	\$0.52	\$31.20
Materials	Lime, ENM	2	Ton	\$23.98	\$47.96
Materials	Wild Rye, Virginia (<i>Elymus virginicus</i>)	2.5	Pound	\$9.81	\$24.53
Equip./Install.	Tillage, Light	2	Acre	\$10.29	\$20.58
Equip./Install.	Tillage, Primary	4	Acre	\$15.60	\$62.40
Equip./Install.	Fertilizer, ground application, dry bulk	1	Acre	\$7.36	\$7.36
Equip./Install.	Seeding Operation, No Till/Grass Drill	1	Acre	\$14.99	\$14.99
Equip./Install.	Mower, Bush Hog	4	Hour	\$44.40	\$177.60
Labor	General Labor	4	Hour	\$21.56	\$86.24
Mobilization	Mobilization, General labor	1	Hour	\$21.81	\$21.81
Mobilization	Mobilization, small equipment	1	Each	\$136.80	\$136.80
Mobilization	Mobilization, very small equipment	1	Each	\$55.50	\$55.50

Total Cost: \$785.87

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	\$0.20	EQIP-HU	\$0.24
WHIP	\$0.20	WHIP-HU	\$0.24
EQIP-NOI	\$0.20	EQIP-HUNOI	\$0.24
EQIP-CCPI	\$0.20	EQIP-HUCCPI	\$0.24