

Rim Range Infrastructure Damage Report

Range Project #1 Rim Fence Repair – no current funding allocated

Justification: Range fences play an important role in controlling the timing and duration of livestock grazing on public lands. A large number of range fences were damaged by the Rim Fire. Wood posts were completely destroyed and metal posts and wire were damaged beyond repair. The destroyed and damaged fences are no longer functioning, resulting in situation where livestock management is impractical. This has the potential to result in resource damage within an already disturbed landscape.

What: Repair 32 miles of publically owned boundary and drift fences damaged by the Rim Fire (Table 1)

Fence Name/Description	Objective/Purpose	Fence Length (Miles)
Thompson Meadow Exclosure/Gathering Pasture	Riparian, Protected Activity Center, Gathering	1.23
Northeast Boundary Fence	Allotment Boundary	0.69
Allotment Boundary from Duckwall Tower East along Ridge	Allotment Boundary	2.29
Wet Meadow Spring Exclosure Fence	Riparian/Watershed, Water Quality, Exclosure	0.25
Allotment Boundary Fence	Allotment Boundary	1.49
Allotment Boundary Fence	Allotment Boundary	1.94
Abernathy Meadow Exclosure Fence	Riparian Restoration, Sensitive Plants, Aquatic Species, Heritage	0.58
Jones Drift Fence	Drift Fence	0.32
Ike Dye Drift Fence	Drift Fence	0.47
Ackerson Meadow Gathering Pasture	Watershed, Protected Activity Center, Gathering Pasture	2.50
White Oak/Pilot Ridge Boundary	Allotment Boundary	1.28
Jawbone Station/Evan's Meadow Administrative Site Fence	Blue Oak Regeneration, Gathering Pasture	1.32
Jawbone Lava Cap Drift Fence	Subunit boundary/drift fence	4.25
Highway 120 Boundary Fence	Allotment Boundary	1.50
Allotment Boundary Fence	Allotment Boundary	9.06
Lost Claim Campground Exclosure Fence	Administrative Site	1.09
Upper Johns Meadow Fence	Riparian/Watershed, Gathering	0.58
Lower Johns Meadow Fence	Riparian/Watershed, Gathering	0.35
Upper Femmons Meadow Exclosure	Riparian/Watershed	0.50
Lower Femmons Meadow	Riparian/Watershed	0.44
Hidden Femmons Meadow Exclosure	Riparian/Watershed	0.15
		32.28

Actions: Livestock management and control as well as protection of sensitive resources, facilities, meadows, and a special aquatic features and riparian areas require fencing.

Who:

1-12 person California Conservation Fuels Crew and/or

1-12 person Inmate Crews and/or

1-12 person USFS Crew

Time Frame: 5 months

Cost:

Cost per mile of fence repair: \$52568
 Crews \$480,000 per year;
 Supplies/Transportation for 5 years = \$220,000
Total for Project #1: \$700,000

Range Project #2 Rim Water Trough Replacement – no current funding allocated

Justification: Livestock water troughs play an important role in controlling the distribution of livestock grazing on public lands. Several water troughs were damaged or destroyed by the Rim Fire. Plastic PVC pipes and wood support braces were completely destroyed and other trough components were damaged beyond repair. The damaged water troughs are no longer functioning, resulting in increased potential for livestock concentration in riparian areas. This situation may result in undesirable impacts to riparian areas and water quality.

What: Replace eight rangeland water troughs damaged or destroyed by the Rim Fire

Actions: Replace 8 water troughs in livestock areas to reduce impacts on riparian areas and water quality. Each concrete trough and accompanying equipment weighs over 5,200 lbs.

Who: 1-12 person California Conservation Fuels Crew and/or
 1-12 person Inmate Crews and/or
 1-12 person USFS Crew
 1 local heavy equipment operator and equipment

Time Frame: 3 months

Cost: Cost per trough for trough repair/replacement: \$1500
 \$280,000 crew cost;
 \$80,000 Heavy Equipment Operator

Total for Project #2: \$368,000

Trough ID	Name/Description	Location
7361A	Sugarloaf Trough	1N, 17E, Section 31, NE
7361B	Wet Meadow Springs Trough (Hunter Creek)	1N, 16E, Section 24, SE
7363A	Wet Meadow Springs Trough (Lower Hull)	2N, 17E, Section 11, SW
73686A	Pigeon Flat Horizontal Well and Trough	1S, 18E, Section 32, SW
7389A	Gravel Range Trough	1S, 18E, Section 20, SE
7392A	Adit 5-6 Trough	1S, 17E, Section 26, NW
7392C	Homestead Spring Development	1S, 17E, Section 27, NE
7393A	Bear Mountain Trough 1	1S, 19E, Section 16, NW
7393D	Bear Mountain Trough 2	1S, 19E, Section 16, SW
7393B	Scout Trough	1S, 19E, Section 15, SE
7393C	Jones Meadow Trough	1S, 18E, Section 10, SW
7158H	Jawbone Pass Trough	2N, 19E, Section 7, SW
NA	Sweetwater Trough	1S, 18E, Section 28, SE

Rim Range Infrastructure Repair Cost Estimates

Fence Cost Estimates

Materials:

- Posts - every 10 ft = 528/mile @ \$6/post = \$3168
- Braces - every 500 ft = 11/mile @ \$40/brace = \$440
- Wire - 3 mils per 1320 feet = 12 mils @ \$80/mil = \$960

Labor:

- 12 person crew - 8 days @ \$6000/day = \$48,000
- 12 person crew average 1 mile fence/8 days

Materials **\$4568**

Labor **\$48000**

Estimated cost per mile fence repair **\$52,568**

Trough Cost Estimates

Materials:

- Trough - \$400
- Pipe, fittings, etc. ~ \$100

Materials **\$500**

Labor/Transportation:

- Heavy Equipment Operator ~ \$100/hour x 7 hours/trough = \$700
- Pipe installation & spring development \$500

Labor **\$1000**

Estimated cost per trough replacement **\$1500**

This report was prepared by the range specialist assigned to the Rim Fire in order to summarize post-fire range infrastructure repair needs and provide cost estimates for proposed range infrastructure repair projects. The damage assessment and compilation of information occurred immediately after the Rim fire, in the fall of 2013. The infrastructure listed in this report is the property and responsibility of the Forest Service.

Signature

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Date

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