

Project Name

High Desert Museum Wildfire Risk Management Plan

Contact Information

High Desert Museum



ODF District Representative

**Treatment location (150-word limit)**

The treatment location will be at the High Desert Museum (HDM), which is located approximately 3.5 miles south of Bend, Oregon on U.S. Highway 97. The total ownership is approximately 135 acres. The property is located in the SW 1/4, S.31, T.18 S., R 12 E. and the SE 1/4, S. 36, T. 18 S., R. 11 E., Willamette Base and Meridian. All HDM property is in a Watershed (HUC-6) wildfire risk class of high as displayed in the Overall Wildfire Risk watershed summary on Oregon Explorer.

Adjoining ownerships are the Deschutes National Forest on the south, Highway 97 to the west, and private property on the north and east. The project will include treatments on the Kerr property to the east.

Description of Treatment Activities (350-word limit)

HDM will reduce the risk of high severity wildfire by reducing fuel sources on the property. Treatment activities will include mowing ground cover, pruning tree limbs, removing undesirable brush, replanting desirable bunch grasses, clearing structural borders, and prescribed burning.

The project will address additional resource concerns by combatting invasive species with cheat grass treatments and enhancing the wildlife habitat by restoring the treated areas with native species which support the goal of developing a healthy forest mosaic habitat. Solarization of cheat grass plots will eliminate plantings and diminish the seed bed. Once the solarization is complete, the solarized areas will be restored with native plantings and monitored for spot treatment. Treatment activities will be conducted by HDM staff and contractors. Prescribed burns will be conducted by U.S. Forest Service personnel.

Additionally, this project will impact multiple properties. HDM will partner with the private property to the east of the HDM property, the Kerr residence. HDM and Cameron Kerr will reduce fuels, limb branches, partner to continue prescribed burning and remove cheat grass.

Description of the anticipated benefit (250-word limit)

The project demonstrates a collaborative approach by conducting activities in areas in proximity to previous fuel treatments. In 2018, HDM conducted a prescribed burn of 50 acres which coincided with the burn of adjacent National Forest Service property. In 2021, an additional 48 acres of HDM were burned. Project work would include maintenance of these areas while preparing for prescribed burns in other blocks of HDM property and prepare and burn the 2018 blocks.

The project is located within the Greater Bend Community Wildfire Protection Plan boundary.

The project will utilize non-traditional forest products by incorporating project byproducts in museum programming: thinned trees will be used at HDM's living history ranch for firewood and sawmill demonstrations. Byproducts of limb removal will be disposed of using pile and burn.

Timeline for implementation (75-word limit, Bullets preferred)

- Spring 2022
 - Begin site preparation for cheat grass solarization
 - Solarization install
- Summer 2022
 - Clear structural borders to create a 5 foot clearing and
 - Remove undesirable brush and pine needles
 - Mow ground cover
- Fall 2022
 - Solarization removal
 - Restore/replant solarized area
 - Replant native species
- Winter 2022
 - Prune lower tree branches
 - Replant starts in treated cheat grass areas
- Spring 2023
 - Prepare for prescribed burn
 - Prescribed burn

Budget (150-word limit) and complete the provided Budget Worksheet

HDM is requesting a grant amount of \$84,400 toward the total project cost of \$112,475. 100% of the costs will be conducted by HDM and 0% by service providers. 25% Leverage of \$28,075 will be sourced from the HDM operating budget (\$18,075) and a matching grant from Deschutes County (\$10,000).

**Oregon Department of Forestry
Small Forestland Grant Program
Budget Calculation Sheet**

Instructions: Fill out blue-bordered boxes

Grant Agreement #/Project Name: # _____ / HDM Wildfire Risk Management Plan

Deliverables	
Below are examples, replace with your projects quantified treatment activities (acres)	
1	25 acres of thinning remaining areas of HDM forest management plan
2	110 acres of limbing of ladder fuels
3	110 acres of mowing and reducing ground fuels on HDM property
4	100 acres of mowing and reducing ground fuels on neighboring Kerr property
5	20 acres of invasive weed management to include treatment and restoration
6	5 acres of pine needle removal
7	20 acres of bitter brush removal and native bunch grass replanting
8	50 acres of prescribed burn preparation and execution
#	Add deliverables as needed
#	Add deliverables as needed
#	Add deliverables as needed
Treatment Footprint	235 Acres (135 HDM + 100 neighboring property)

Cost Category	Grant Request	Leverage (25% required)		Total Project Cost
		Match (if any)	Leverage (if any)	
1. Personnel	\$ 56,900.00	\$ 10,000.00	\$ 600.00	\$ 67,500.00
2. Fringe Benefits	\$ 16,500.00		\$ 3,750.00	\$ 20,250.00
3. Travel				\$ 0.00
4. Equipment	\$ 1,000.00		\$ 3,500.00	\$ 4,500.00
5. Supplies	\$ 10,000.00		\$ 0.00	\$ 10,000.00
6. Contractual	\$ 0.00		\$ 0.00	\$ 0.00
7. ODF (if applicable)	\$ 0.00		\$ 0.00	\$ 0.00
8. Indirect	\$ 0.00		\$ 10,225.00	\$ 10,225.00
Total	\$ 84,400.00	\$ 10,000.00	\$ 18,075.00	\$ 112,475.00

Narrative justification by line item: totals should match claim above.

For each line item	Detail by position or item cost, rate, number of units, and subtotals. Tie costs to Deliverables. Example: Personnel and Fringe (\$1,480 and \$740=\$2,220) for 1 Ecologist working 40 hours @ \$37/hour to treatment plan 100 acres of fuel treatments
Personnel & Fringe	One Landscape Manager @ \$55,000 annually to conduct all treatment Additional HDM labor (500 hours @ \$25/hour) for treatment support
Travel	None
Equipment	\$3,500 for mower (HDM leverage) \$1,000 for solarizing/planting/trimming tools
Supplies	\$4,460 for replanting native species in areas where cheat grass and bitter brush are removed. \$5040 for mulch and install for replanting solarized areas \$500 for miscellaneous treatment supplies
Contractual Payments	None
ODF (if Applicable)	
Leverage Sources	\$18,075 from HDM operating budget \$10,000 matching funds from Deschutes County
Indirect Costs	10% for management and administrative costs, HDM vehicle expense, utilities, etc.

Number of Panel Reviewer #1		Project Name	High Desert Museum Wildfire Risk Management	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	20	
Reviewer Comments	135 acres: PHDM will reduce the risk of high severity wildfire by reducing fuel sources on the property. Treatment activities will include mowing ground cover, pruning tree limbs, removing undesirable brush, replanting desirable bunch grasses, clearing structural borders, and prescribed burning.			
2	Project protects infrastructure, creates shaded fuel breaks along roadways, or is in a Wildfire Risk Class of High or Extreme (HUC 6 watershed)	15	15	
Reviewer Comments	All HDM property is in a Watershed (HUC-6) wildfire risk class of high.			
3	Project treats or protects multiple properties	15	10	
Reviewer Comments	One property with benefits to Deschutes National Forest, Highway 97, and other properties on the north and east.			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	15	
Reviewer Comments	Combat invasive species with cheat grass treatments and enhancing the wildlife habitat by restoring the treated areas with native species which support the goal of developing a healthy forest mosaic habitat. Solarization of cheat grass plots will eliminate plantings and diminish the seed bed.			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	In 2018, HDM conducted a prescribed burn of 50 acres which coincided with the burn of adjacent National Forest Service property. In 2021, an additional 48 acres of HDM were burned. Project work would include maintenance of these areas while preparing for prescribed burns in other blocks of HDM property and prepare and burn the 2018 blocks.			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	0	
Reviewer Comments	Could not find information where this criterium was addressed.			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	10	
Reviewer Comments	The project is located within the Greater Bend Community Wildfire Protection Plan boundary.			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	The project will utilize non-traditional forest products by incorporating project byproducts in museum programming: thinned trees will be used at HDM's living history ranch for firewood and sawmill demonstrations.			
Final Score		Out of 100	85	

Number of Panel Reviewer #2		Project Name	High Desert Museum Wildfire Risk Management	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	10	
Reviewer Comments	mostly reads like preventive maintenance plan, other than addition of prescribed burning			
2	Project protects infrastructure, creates shaded fuel breaks along roadways, or is in a Wildfire Risk Class of High or Extreme (HUC 6 watershed)	15	5	
Reviewer Comments	high risk area			
3	Project treats or protects multiple properties	15	10	
Reviewer Comments	primary + neighbor			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	10	
Reviewer Comments	cheat grass, enhancement of habitat with restoration of natives			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	previous work on property, adjacent NF			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	0	
Reviewer Comments	not indicated			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	10	
Reviewer Comments	within Bend Community Wildfire Protection Plan boundary			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	use of some byproducts in museum programming			

Final Score

Out of
100

60

Number of Panel Reviewer #3		Project Name	High Desert Museum Wildfire Risk Management	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	18	
Reviewer Comments	Yes, multiple treatment activities including prescribed burning			
2	Project protects infrastructure, creates shaded fuel breaks along roadways, or is in a Wildfire Risk Class of High or Extreme (HUC 6 watershed)	15	15	
Reviewer Comments	High Wildfire Risk Class			
3	Project treats or protects multiple properties	15	15	
Reviewer Comments	Yes, two properties			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	15	
Reviewer Comments	Yes, cheat grass treatment (solarized and monitored for spot treatment)			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	Yes			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	0	
Reviewer Comments	Does not appear so			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	10	
Reviewer Comments	Yes, Greater Bend Community Wildfire Protection Plan			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	Yes, utilized at High Desert Museum (including sawmill demonstration)			
Final Score		Out of 100	88	

Number of Panel Reviewer # 4		Project Name	High Desert Museum Wildfire Risk Management Plan	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	19	
Reviewer Comments	Projects will reduce fuel loads on the property and enhance its fire resistance			
2	Project protects infrastructure, creates shaded fuel breaks along roadways, or is in a Wildfire Risk Class of High or Extreme (HUC 6 watershed)	15	13	
Reviewer Comments	The project covers the entire property and will work along trails structures and in the forests			
3	Project treats or protects multiple properties	15	12	
Reviewer Comments	The project is adjoined buy USFS property and will work closely with them and a few other small landowners.			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	13	
Reviewer Comments	The treatments will improve resilience within the area that will improve these other concerns			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	9	
Reviewer Comments	The project is clearly collaborative with the USFS and adjoining landowners			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	8	
Reviewer Comments	The project will provide defensive space and protection for visitor			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	9	
Reviewer Comments	Yes the area falls within t a Watershed (HUC-6) risk class o fhigh			
8	Project utilizes non-traditional forest products	5	4	
Reviewer Comments	The project will provide for secondary forest products from firewood to logs for small sawmills			
Final Score		Out of 100	87	

Number of Panel Reviewer # 5		Project Name	High Desert Museum	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	17	
Reviewer Comments	Describes treatments but lost points due to lack of prescription detail. Prescribed fire as a maintenance of past mechanical treatments: OK			
2	Project protects infrastructure, creates shaded fuel breaks along roadways, or is in a Wildfire Risk Class of High or Extreme (HUC 6 watershed)	15	15	
Reviewer Comments	Museum structure protected, high risk			
3	Project treats or protects multiple properties	15	5	
Reviewer Comments	Two ownerships treated, states adjacent properties will benefit, but benefit to these landowners could have been quantified more			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	12	
Reviewer Comments	Invasive species with maintenance plan articulated			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	USFS does prescribed fire, adjacent landowners will conduct treatments as well.			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	0	
Reviewer Comments	None mentioned			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	5	
Reviewer Comments	Mentions the CWPP,			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	Byproducts used in museum programming and demonstrations, cool!			
Final Score		Out of 100	69	