

Project Name:


Keno Small Forestland Grants 2022

Contact Information:

Klamath Soil & Water Conservation District.

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**Treatment location:**

The treatment location is in and around the town of Keno, Oregon. All planned treatments on private lands, with the largest acreages south of the town.

The proposed project is within the Keno Reservoir-Klamath River HUC (180102041202). This HUC is in the highest category of overall watershed wildfire risk, "Very High", according to the Advanced Wildfire Risk Explorer.

Treatments will also occur along roadways and at TBD residential areas found during outreach.

Description of Treatment Activities:

The proposed project will treat 473 acres of overstocked, mixed coniferous forest in the vicinity of Keno, Oregon, on 13 tax lots split between 9 landowners. The project area is designated as the highest watershed scale overall wildfire risk. Fuels reduction on these properties will not only make it easier protect the properties themselves, but the nearby residential areas and roadways as well. The forest, depending on tax lot, contains 20%-85% Juniper and a small but significant number of insect damaged trees. Contractors will perform the felling of large trees and work requiring specialized heavy machinery. Individual landowners and Keno Rural Fire Protection District (KRFPD) personnel will work with smaller fuels, firewood production, burning of small slash and brush piles, and/or pruning.

Treatments are as follows:

- Mastication or cutting and burning overgrown shrubs and trees <6" DBH.
- Felling and burning of all insect infested trees.
- Felling and trimming of all Juniper, except phase 3 Juniper which will be left as needed for wildlife habitat. Logs will be limbed, stacked, and utilized for firewood.
- Selective thinning of unhealthy trees if so determined by a qualified forester.
- Small fuels treatment around homes and on roadsides by landowners and KRFPD in locations still to be determined.

Description of Anticipated Benefit:

ODF, KRFPD, the BLM, and both private and commercial landowners have completed extensive fire protection activities over the past few decades (see map). This project complements those efforts and will improve the protection of both the treated properties and the adjacent residential areas. As work within dense housing and infrastructure is difficult, expensive, and mainly not within the scope of this project to complete, creating large fire breaks adjacent to those areas is

critical to reducing fire hazard until that work can be done. The proposed project enhances fire protection for a handful of disabled people and a substantially older population. Nearly a quarter of Keno residents are 70+, and an additional 20% are 60+, potentially with reduced ability to readily escape a fire. There is also an elementary school, critical community infrastructure, and a major travel corridor to the west. Treatments are based on the Keno Community Wildfire Protection Plan and the Klamath County Hazard Mitigation Plan. Juniper on approximately 20% of the treated acreage so far will be used for firewood by the landowners.

Timeline for Implementation:

- Fire protection activities in flatland areas completed at the rate of 100 acres/ 2.5 months, for a total of 11.5 months.
- Fire protection activities in steeply sloped areas completed at the rate of 63 acres in 3 months.
- Roadside and residential fire protection activities, and Black Pineleaf Scale treatments completed concurrently with large acreage projects.
- All fire protection/insect treatment activities completed by 15May23.
- 1 Keno community fire protection outreach event completed by 15Aug22.

Budget:

The proposed budget is \$289,244 with ~90% directly to fire protection activities, 10% indirect costs to Klamath Soil & Water Conservation District (KSWCD) for staff time and administrative costs, and <1% for project support activities and outreach. Costs were derived from contractor estimates, the advice of the Keno Fire Chief, and KSWCD's experience on Juniper thinning projects elsewhere in southern Klamath County.

Leverage is \$82,500 at ~30% as follows: Marc Heintz free firewood preparation and distribution to the Keno community (fuel removal), \$10,000, slash gathering and burning, \$5,000. Residential landowner participation in site visits, meetings, and fuels reduction, \$5,000. ODF technical support, \$5,000, KRFPD for ongoing volunteer efforts during the project, \$5,000. KSWCD, \$1,250. Klamath Watershed Partnership, \$1,250. Fire protection activities with a portion within ½ mile of the proposed project area from a non-state source that will reduce or continues to reduce risk and has not been used for another awarded grant, \$50,000.

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

Instructions: Fill out blue-bordered boxes

Grant Agreement #/Project Name: _____ # _____ / Keno Small Forestlands Grant 2022

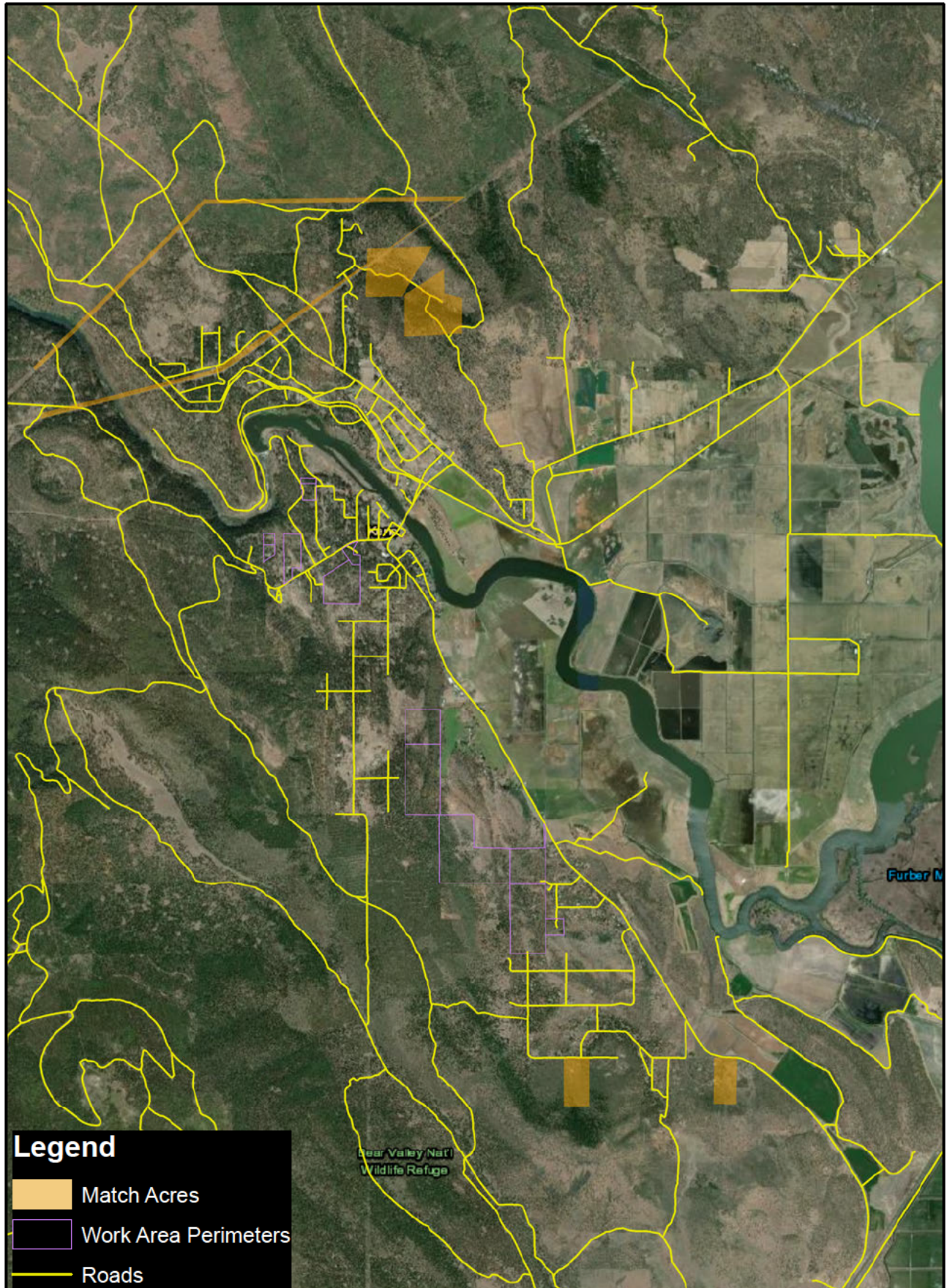
Deliverables	
Below are examples, replace with your projects quantified treatment activities (acres)	
337	acres felling most Juniper, mulching bushes and conifers <6" DBH. Juniper slash will be piled and burned while other slash may be left in place if it does not present excessive fire hazard.
96	acres on steep slopes felling and limbing most Juniper for firewood, mulching bushes and conifers <6" DBH. Juniper slash will be piled and burned while other slash may be left in place if it does not present excessive fire hazard.
40	acres of Black Scale infested Pine to be treated with insecticide after felling to prevent spread until the trees can be burned.
15	project sponsor site visits to verify progress and provide technical assistance.
1	outreach event to increase awareness of fire protection efforts and resources in the community and increase program participation.
25	acres of brush, small diameter tree, and pruning along roadsides and near structures.
40	acres felling, delimiting, and decking dense Juniper for firewood.
#	
#	
#	
#	
Treatment Footprint	473 acres

Cost Category	Grant Request	Leverage (25% required)		Total Project Cost
		Match (if any)	Leverage (if any)	
1. Personnel	\$ 1,400.00	\$ 1,250.00		\$ 2,650.00
2. Fringe Benefits	\$ 294.00			\$ 294.00
3. Travel	\$ 350.00			\$ 350.00
4. Equipment	\$ 0.00			\$ 0.00
5. Supplies	\$ 0.00			\$ 0.00
6. Contractual	\$ 261,200.00	\$ 31,250.00	\$ 50,000.00	\$ 342,450.00
7. ODF (if applicable)	\$ 0.00	\$ 5,000.00		\$ 5,000.00
8. Indirect	\$ 26,000.00			\$ 26,000.00
Total	\$ 289,244.00	\$ 37,500.00	\$ 50,000.00	\$ 376,744.00




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	Personnel and Fringe (\$1,400 + \$294=\$1,694) for 1 Project Manager working 60 hours @ \$24/hour to verify project progress, coordinate activities, and submit payment and reporting paperwork. Verification includes making 15 thirty-two mile round trips to the 548 acres of project sites over the duration of the grant.
Travel	Mileage Reimbursement at the 2022 federal rate (480 miles X \$0.585=\$281) for 1 Project Manager making 15 thirty-two mile round trips to the 548 acres of project sites over the duration of the grant. Hours for travel are included under Personnel and Fringe.
Equipment	None.
Supplies	None.
Contractual Payments	Fire Protection Contractor (Flatlands Regular \$134,000 + Heavy Juniper w/ Delimiting \$40,000 + Steep Slopes \$60,000 = \$234,400) for a crew to run a Cat with grapple, track loader, and mulching head, chainsaws, and other equipment as necessary. KRFPD (Roadside and residential small fuels treatments \$10,000) for crews using hand tools and trucks. KRFPD (Outreach \$1,000) to improve community awareness of fire protection and increase treatment connectivity. Pesticide Contractor (Spraying \$16,800) for suppression of Black Pineleaf Scale after trees are felled to prevent spread until approximately 40 acres worth of infested trees can be burned.
ODF (if Applicable)	N/A
Leverage Sources	Marc Heintz fuel removal in the form of firewood \$10,000 and slash gathering and burning \$5,000. Residential landowner participation in site visits, meetings, and fuels reduction \$5,000. ODF technical support \$5,000. KRFPD fuels reduction, tech support, outreach \$5,000. KSWCD tech support, outreach \$1,250. KWP tech support, \$1,250. Complementary fire protection, non-state sources \$50,000.
Indirect Costs	Administrative costs \$26,000.

Klamath Soil & Water Conservation District Keno Small Forestlands Grant 2022



Legend

-  Match Acres
-  Work Area Perimeters
-  Roads

Coordinate System: WGS 1984 Web Mercator Auxiliary Sphere 0 0.42 0.85 1.7 2.55 3.4 Miles

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Number of Panel Reviewer #1		Project Name	Keno Small Forestland	
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	473 acres: Mastication or cutting and burning overgrown shrubs and trees <6" DBH. Felling and burning of all insect infested trees. Felling and trimming of all Juniper. Selective thinning of unhealthy trees if so determined by a qualified forester. Small fuels treatment around homes and on roadsides. Fuels reduction on these properties will not only make it easier protect the properties themselves, but the nearby residential areas and roadways as well.			
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	The project area is designated as the highest watershed scale overall wildfire risk. There is also an elementary school, critical community infrastructure, and a major travel corridor to the west.			
3	Project treats or protects multiple properties	15	10	
Reviewer Comments	13 tax lots split between 9 landowners			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	15	
Reviewer Comments	Phase 3 Juniper will be left as needed for wildlife habitat.			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	ODF, KRFPD, the BLM, and both private and commercial landowners have completed extensive fire protection activities over the past few decades. This project complements those efforts and will improve the protection of both the treated properties and the adjacent residential areas.			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	10	
Reviewer Comments	The proposed project enhances fire protection for a handful of disabled people and a substantially older population. Nearly a quarter of Keno residents are 70+, and an additional 20% are 60+, potentially with reduced ability to readily escape a fire.			
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	Keno Community Wildfire Protection Plan and the Klamath County Hazard Mitigation Plan			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	Juniper on approximately 20% of the treated acreage so far will be used for firewood by the landowners.			
Final Score		Out of 100	95	

Number of Panel Reviewer #2		Project Name	Keno Small Forestland	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	15	
Reviewer Comments	brevity not always conducive to comprehension by outside reader			
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	extreme risk, roadways			
3	Project treats or protects multiple properties	15	10	
Reviewer Comments	9 landowners — with others TBD? or are the 9 also TBD?			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	5	
Reviewer Comments	insect damage, juniper (both removed & left as habitat)			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	10	
Reviewer Comments	previous treatments as well as providing reduced risk “buffer” until additional work can be completed			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	10	
Reviewer Comments	disabled individuals, elderly population in Keno			
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	Keno Community Wildfire Protection Plan & Klamath County Hazard Mitigation Plan			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	firewood			

Final Score

Out of
100

80

Number of Panel Reviewer #3		Project Name	Keno Small Forestland	
Priority	Proposal Scoring Rubric	Possible Points	Reviewer Score	
1	Clearly describes treatment activities and how future condition reduces risk of high severity wildfire	20	15	
Reviewer Comments	Yes, good description of the treatment activities but some elements are 'tbd'			
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	Very High Wildfire Risk Class			
3	Project treats or protects multiple properties	15	15	
Reviewer Comments	Yes			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	12	
Reviewer Comments	Insect infested trees noted as well as leaving larger juniper for wildlife habitat			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	5	
Reviewer Comments	Notes previous treatments, but it's not clear where they are on the map (i.e., within ½ of treatment areas)			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	10	
Reviewer Comments	Yes, community has vulnerable residents			
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, Keno Community Wildfire and Protection Plan and the Klamath County Hazard Mitigation Plan			
8	Project utilizes non-traditional forest products	5	5	
Reviewer Comments	Yes, juniper used for firewood by landowners			
Final Score		Out of 100	87	

Number of Panel Reviewer # 4		Project Name	Keno Small Forestland Grants 2022	
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	The project covers 473 acres within the Keno Reservoir-Klamath River HUC and 13 tax lots. The management will provide multiple treatments for vegetation management and to reduce fire risks			
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 will provide for fuel breaks along a state Hwy and to forest within the HUC area			
3	Project treats or protects multiple properties	15	13	
Reviewer Comments	!3 properties are scheduled for treatment within the area as well a nearby communities			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	12	
Reviewer Comments	The planned vegetation management will be taking on issues with drought, insects and other natural resource concerns			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	8	
Reviewer Comments	The project is proposed to work with the adjoining communities, which are small in number and have a relative higher elderly age class.			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	9	
Reviewer Comments	Yes, the project will provide fuels reduction plans to decrease fire hazard for it's adjoining communities			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	8	
Reviewer Comments	The treatment area falls within a Klamath River HUC which is defined as an are at a very High fire risk			
8	Project utilizes non-traditional forest products	5	3	
Reviewer Comments	Nontraditional forest products the likes of firewood are being left for landowners use.			
Final Score		Out of 100	85	

Number of Panel Reviewer # 5		Project Name	Keno	
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	Clearly lists treatment activities and connected how treatments will reduce high severity wildfire risk, and fits into larger landscape efforts/adjacent landowners. Lost some points because no future stand condition was listed			
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	12	
Reviewer Comments	Around homes, in very high/extreme risk			
3	Project treats or protects multiple properties	15	15	
Reviewer Comments	Treats 9 landowners for a total of 473 acres with adjacency to smaller parcel ownerships			
4	Proposed treatment(s) address insects and disease, drought mortality, invasive species, storm damage or enhances wildlife habitat	15	10	
Reviewer Comments	Insect infestation, and stand health referenced but unclear if this project will improve habitat or benefit resource concerns other than wildfire			
5	Clearly demonstrates collaborative approach including treatment proximity to previous or planned hazardous fuel treatments	10	6	
Reviewer Comments	Works directly with rural fire district and project enhances other fuel reduction work completed, though areas seem disjointed from proposed project			
6	Proposed treatment(s) benefit vulnerable populations or under protected properties	10	5	
Reviewer Comments	Work occurs in an underserved community with disproportionate vulnerable population, but not clear if funds will directly support these populations			
7	Treatment area references a forest management plan or is located within a priority planning area listed in Funding Priority 6	10	6	
Reviewer Comments	Lists two priority planning areas, but treatments are based on? unclear how closely this project supports strategic plans referenced.			
8	Project utilizes non-traditional forest products	5	4	
Reviewer Comments	Quantifies amount of firewood to be used.			
Final Score		Out of 100	76	