

Grant Application



Kayla Dreher

Email : kayla.dreher7@gmail.com

Application ID : A20DK57

Custom Ref. -

Application Start Date: 2021-11-05 20:37:58

Application Completed Date: 2021-11-05 23:06:29

1 Have you ever applied for an OWF grant before?

yes

1.1 What was the name of the project?

Wallowa Wolverine Persistence Project

2 Have you ever been denied for an OWF grant before?

no

3 Project Title

Wallowa Wolverine & Forest Carnivore Project

4 Name of my Organization

Carcajou Carnivore Conservation

5 If your organization is not a tax-exempt nonprofit, please list the name of your fiscal sponsor

-

If this does not apply to you, write N/A

Oregon Wildlife Foundation

6 Project Manager Full Name

Kayla Dreher

7 Project Manager Mailing Address

-

Please enter full address with city, state & zip

1010 N 45th st, apt 5, Seattle, WA 98103

8	Project Manager Phone Number
	(563)-349-9329
9	Project Manager Email Address
	kayla.dreher7@gmail.com
10	Please provide a brief biographical statement about yourself
	I am a wildlife biologist, field ecologist, and current MS candidate at the University of Washington focusing on non-invasive remote-camera and genetics based studies highlighting the conservation needs of rare carnivores. I have 8 years of field experience collecting and analyzing data on forestry and wildlife related research projects.
11	Provide any social media handles you use - Enter social handles or URLs such as instagram, facebook, twitter, youtube, etc. so that we can use to cross promote on our channels - if you do not have any, please place N/A
	instagram.com/wallowawolverineproject
12	Please indicate if you are currently following Oregon Wildlife Foundation on our social media channels
	- Instagram - Facebook - Twitter - YouTube
13	Total estimated project cost
	10469.22
14	Funding that you are requesting from OWF - If you're request is for more than \$5,000, please contact Tim Greseth - tim@myowf.org before submitting your application.
	5944.22
15	What type of project are your proposing?
	Wildlife
16	Will your project address an Oregon Conservation Strategy habitat or species?
	yes
16.1	What habitat or species is addressed?
	wolverine

17	Start date of project- Day/Month/Year
	12-01-2021
18	End date of project
	31-10-2022
19	Location of project
	Wallowa-Whitman National Forest
20	Has a local, state or federal biologist reviewed this project?
	yes
20.1	What is their name and contact info?
	ODFW - Kalysta Adkins, kalysta.l.adkins@odfw.oregon.gov
21	Have you already or will you obtain necessary permits from all requisite agencies as applicable to proposed project?
	yes
22	What will the requested funds be used for?
	Over the 2022 winter, we aim to continue our long-term monitoring of the wolverine(s) in the Wallowa-Whitman National Forest through the redeployment of 6 monitoring stations and engagement of community members in wildlife science. We are maintaining three wolverine research sites in collaboration with the Oregon Department of Fish and Wildlife's statewide survey for wolverines along with our 3 long-term monitoring stations. We request OWF funds to cover field prep and labor, mileage costs, snowmobile fuel, batteries for remote cameras, a subscription for safety equipment for the duration of fieldwork, and lab fees for analyzing wolverine scat samples for intestinal parasites and diet contents.
23	Provide a brief Project Summary
	The Wallowa Wolverine and Forest Carnivore Project uses camera monitoring and winter tracking to track the persistence of wolverines in Northeast Oregon and gain valuable insights on the population status of sympatric carnivores. Our aim is to provide land managers with better tools necessary for stewardship of wolverines in this region.

24 Upload pre-project pictures or a video -
By submitting these photos or video I warrant that I am the legal owner of this media and grant the Foundation permission to reproduce, exhibit, or publish them for all general purposes in relation to Oregon Wildlife Foundation's work. If you have questions about photo or video submissions please refer to myowf.org/grants for guidance.



25 Fill out the budget

Project Revenue	Cash	In-Kind	Committed / Pending
Oregon Wildlife Foundation Request	5944.22		Pending
A. Magoun (Cameras, runpoles, lodging)		4000	Committed
Kayla Dreher (Reporting & Analysis)		525	Committed
REVENUE	5944.22	4525.00	
		TOTAL PROJECT SUPPORT	10469.22
Project Expenses	Cash	In-Kind	Total
20 days of field labor	3500		3500.00
Mileage reimbursement	1744.20		1744.20
Snowmobile fuel	250		250.00
Batteries	204.96		204.96
Biological labwork	150		150.00
Garmin InReach subscription (7 months)	95.06		95.06
Cameras, supplies, lodging		4000	4000.00
Reporting and analysis time		525	525.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
			0.00
		TOTAL PROJECT EXPENSES	10469.22
Balanced budget? This cell should read "0" ---->		NET	0.00

26 Upload your Project Narrative - Please make sure your narrative is no more than 7 pages long, single spaced, 12 pt. font (Calibri preferred).

1 Document Uploaded

27 Upload letters of support

1 Document Uploaded

28 I understand that I am required to submit a Project Completion Report, copies of any publications or social media posts crediting the Foundation's support, and post-project pictures at the completion of my project

yes

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— Grant Application

Kayla Dreher

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1 Are the eligible?

No Answer Provided

Project Narrative

The Wallowa Wolverine Project is monitoring the persistence of wolverines throughout the Wallowa Range using runpole monitoring and winter tracking to garner new insights on the status and conservation needs of wolverines in Oregon.

The wolverine is a medium-sized carnivore that lives in low population densities and maintains large home ranges to sustain life at relatively unproductive, high elevation habitats. Wolverine populations in the lower 48 states were largely extirpated by the early 1900's through indiscriminate predator control, fur-trapping, and habitat loss. Following the alleviation of these pressures, wolverines have naturally recolonized much of their historical range in Idaho, Montana, Washington, and Wyoming. The wolverine is listed as threatened in the state of Oregon and is an Oregon Conservation Strategy species. The wolverine was petitioned for federal listing under the Endangered Species Act in 2010, citing the projected impacts of climate warming on critical wolverine denning habitat. After a litigious decision-making process spanning 10 years, the US Fish and Wildlife Service withdrew its proposal to list wolverines in October 2020. While wolverines are slowly recolonizing unoccupied habitat in the US Western states, contemporary environmental changes may put the long-term viability of these populations at risk. Additionally, wolverine dispersal movement is challenged by human development and the constriction of snowy habitats caused by climate change. This raises concern for the persistence of small and isolated wolverine populations, like that of the Wallowa Range in Northeast Oregon.

In studying wolverine ecology in the Wallowa Mountains, the Wallowa Wolverine Project is working to provide land managers with better tools necessary for the stewardship of wolverines in this region. We use proven non-invasive detection methods to identify the presence and reproductive status of individual wolverines by photos and DNA. The Wallowa Mountain Range comprises an important link between disjunct wolverine habitats in the Pacific Northwest and the persistence of wolverines in this area is dependent on the periodic dispersal of new individuals from nearby populations. We seek to answer fundamental questions about wolverine population dynamics in this ecosystem to garner new insights on the status and conservation needs of wolverines in Oregon. We coordinate our field efforts with the Wallowa-Whitman National Forest and Oregon Department of Fish and Wildlife to incorporate multi-species detection methods, which support the development of effective management plans for other species of conservation interest, like Pacific marten and Rocky Mountain red fox. We use our results to provide community scientists and recreationists with science tools to learn about rare carnivores in their own field experiences and engage students from a diversity of age groups and backgrounds to provide impactful educational experiences.

The primary goals of our project are to monitor wolverine population dynamics in Northeast Oregon and provide land managers with better tools necessary for the stewardship of wolverines in this region. Our primary objectives are to:

1. Monitor the persistence of wolverines in the Wallowa Mountain ecosystem, using proven non-invasive detection methods that identify the presence and reproductive status of individual wolverines by photos and DNA.

Two years of expanded wolverine monitoring indicate that only a single resident male occupies the Wallowa Range currently. We are transitioning to our long-term regime, which involves deploying 4-6 wolverine monitoring sites per year with 2 years of expanded monitoring (12 monitoring sites) every 5 years to reassess for the presence of females with smaller home ranges than resident males in more remote habitat. Maintaining our network of wolverine stations, we will continue to monitor Stormy, who is Oregon's only known wolverine resident and longest monitored solo male wolverine, and likely detect any other individuals that establish a territory in the Wallowas in the future.

2. Provide land managers with detection data to inform forest management and promote wolverine recovery.

Our work is carried out in close collaboration with the Oregon Department of Fish and Wildlife and the Wallowa-Whitman National Forest.

3. Document presence of sympatric carnivore species.

To increase the impact of our research presence in remote ecosystems, we piloted multi-species research projects in coordination with the Wallowa-Whitman National Forest to document Pacific marten and Rocky Mountain red fox presence. Pacific marten monitoring is a long-term project primarily administered by the National Forest and we are in the process of synthesizing data for proposal development of an upcoming study focused on red fox spatial and resource ecology. Our wolverine sites have been adjusted to better collect data on these two species in conjunction with our wolverine focus. Incorporating detection methods for multiple species can shed light into the dynamics of rare carnivores on their shared landscape and contribute to the establishment of effective monitoring plans for additional species of conservation concern.

4. Provide educational outreach materials through a variety of mediums that promote the interest of community members and students in conservation.

We actively pursue opportunities to share our project findings with the local and regional community, provide community scientists and recreationists with science tools to document rare carnivores, promote the development of young professionals, and engage students from a diversity of age groups and backgrounds.

Over the 2022 winter, we aim to continue our long-term monitoring of the wolverine(s) in the Wallowa-Whitman National Forest through the redeployment of 6 monitoring stations and engagement of community members in wildlife science. We are maintaining three wolverine research sites in collaboration with the Oregon Department of Fish and Wildlife's statewide survey for wolverines along with our 3 long-term monitoring

stations. We request OWF funds to cover field prep and labor, mileage costs, snowmobile fuel, batteries for remote cameras, a subscription for safety equipment for the duration of fieldwork, and lab fees for analyzing wolverine scat samples for intestinal parasites and diet contents. Thank you for your consideration and support.

I apologize, we do not have letters of support to share at this time.



