## **REPORT**

Project: Wolverine (*Gulo gulo*) hair samples (GANDA Project) collected on the Payette National Forest, Idaho 2014

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We performed individual and sexing DNA analysis on hair samples from non-invasive carnivore surveys on the Payette National Forest conducted by *GANDA*. Four wolverine hair samples were analyzed for individual, sex and mitochondrial DNA haplotype.

Two unique individuals (Table 1) were identified from these samples. One individual is from a male wolverine that matches a known study animal from Warm Lake in the McCall area (individual M4\_Mason). This wolverine has also been detected from hair samples collected by *GANDA* in 2013, samples submitted by Idaho Fish and Game personnel (hair samples IDFG\_09-R3N-621-T5 and IDFG-11-R3N-702-1) and a hair sample from the Boise National Forest (09-625-04a).

The second wolverine is new to the wolverine DNA database and has been given the identifier Payette\_Ganda\_2M as this is the second new individual identified from this project. Both individuals have a mitochondrial DNA haplotype of haplotype A (Wilson et al. 2000, Schwarz et al. 2009) that is common in wolverines from Idaho.

Table 1. DNA results for wolverine hair samples from the GANDA 2014 survey

Sample Number	Session 3: V3 Data Collection/Pull	Sex	Individual	mtDNA Haplotype	Recapture?
1	3/21/2014	male	ID_M4-Mason	Wilson-A	yes
3 (new DNA					
extraction)	3/19/2014	male	ID_M4-Mason	Wilson-A	yes
20	3/21/2014	male	Payette_Ganda_2M	Wilson-A	no
35	3/20/2014	male	Payette_Ganda_2M	Wilson-A	no

Please contact us if you have any questions; we look forward to working with you in the future.