

This research project focuses on the comprehensive analysis of game camera photographs captured in the Bighorn Basin from spring of 2021 to the present, aiming to gain valuable insights into mesocarnivores, including spotted skunks (*Spilogale*). The primary objectives include species identification, diversity, occurrence, and behavioral pattern recognition of wildlife. By leveraging innovative technology, the research aims to enhance our understanding of the distribution, abundance, and activity patterns of various animal species within this region. Our outcomes hold considerable significance for wildlife conservation and management strategies for Wyoming Species of Greatest Conservation Need. Furthermore, we have concentrated our camera placement in juniper (*Juniperus osteosperma* and *J. scopulorum*)/limber pine (*Pinus flexilis*) woodlands, recognizing the importance of these habitats to a native subset of Wyoming species.