The information presented here are preliminary results and do not represent any final conclusions

# Moving between green and black:

# Natal dispersal and survival of juvenile Black-Backed Woodpeckers (*Picoides arcticus*)

Mark Kerstens M.S. student | Forest Animal Ecology Lab







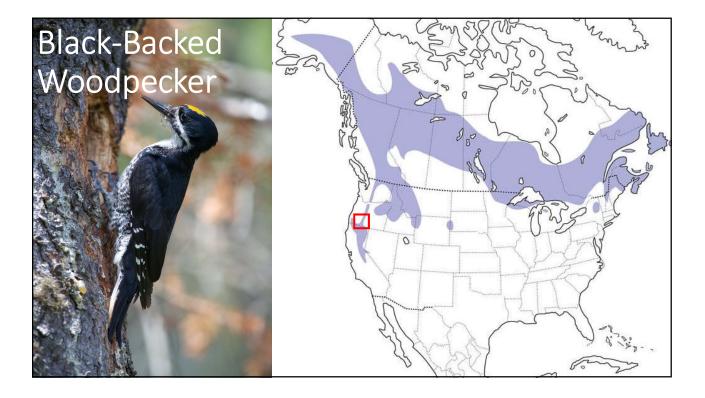
## Questions to Consider:

What is a Black-Backed Woodpecker?

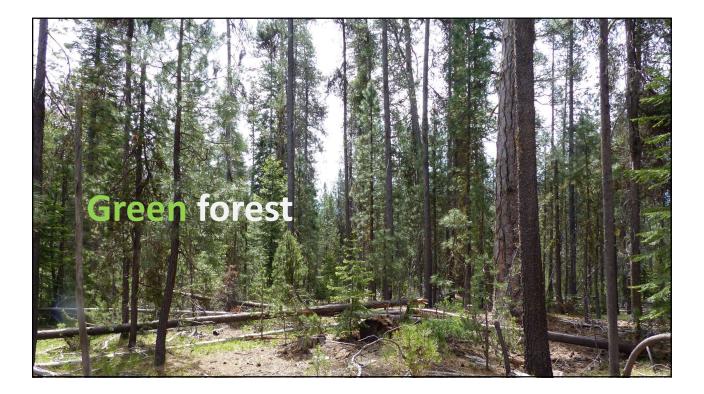
How are the they impacted by breeding in green vs burned forests? -Apparent Nest Success -Juvenile Body Condition -Juvenile Survival

How do their used nest-sites in green forests compare to those in burned forests?

How do juveniles disperse and choose breeding habitat on the landscape?





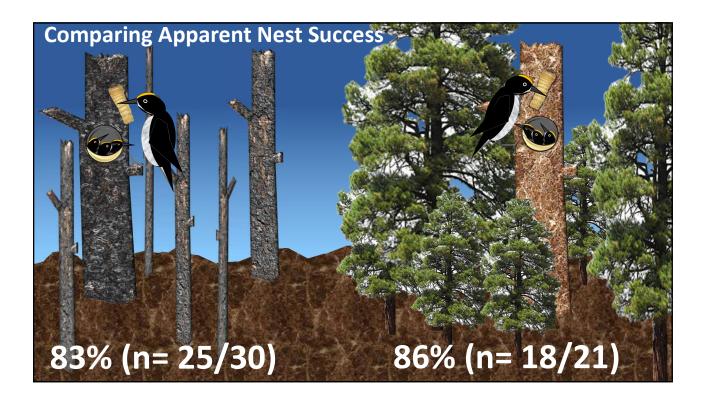


# Data Collection:

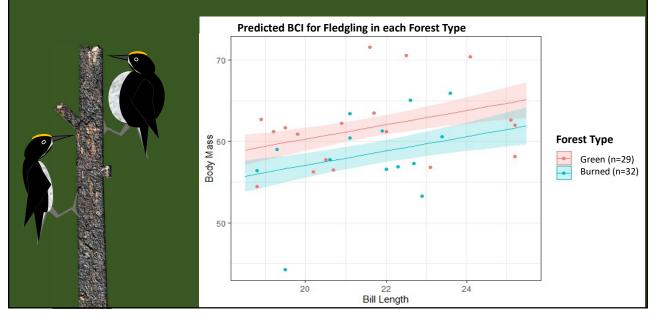
- Locate and monitor nests to quantify nest success.
- Record video of adult provisioning behaviors at nests.
- Measure and radio-tag nestlings to quantify survival.
- Measure vegetation at nest sites to assess habitat use and selection.

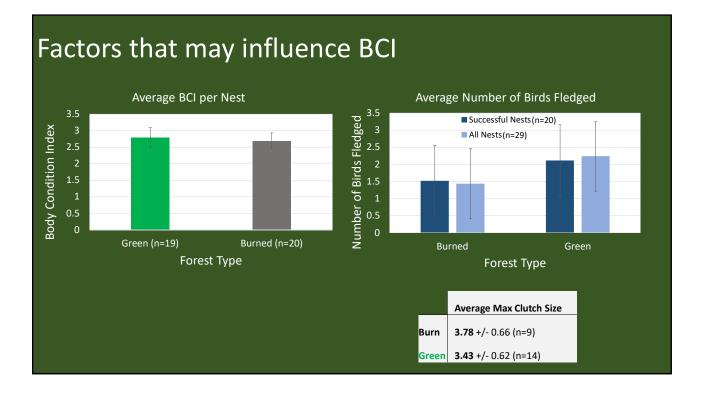
How do fledgling Black-Backed Woodpeckers differ between green and burned forests?

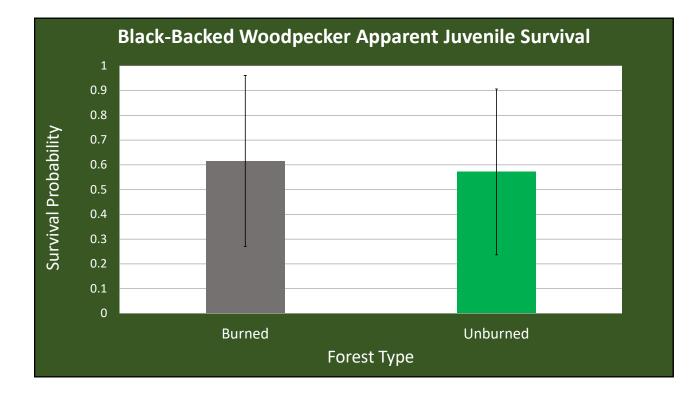
\*Fledgling: young bird that has left the nest and is capable of flight

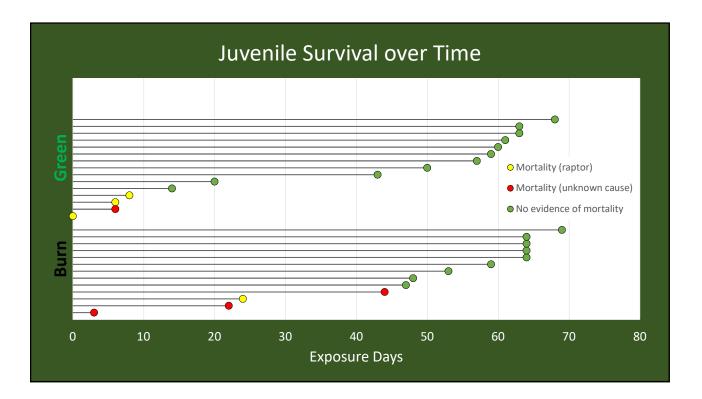


#### Fledgling Body Condition Index (BCI): Adjusting body mass by size as a proxy for a bird's condition









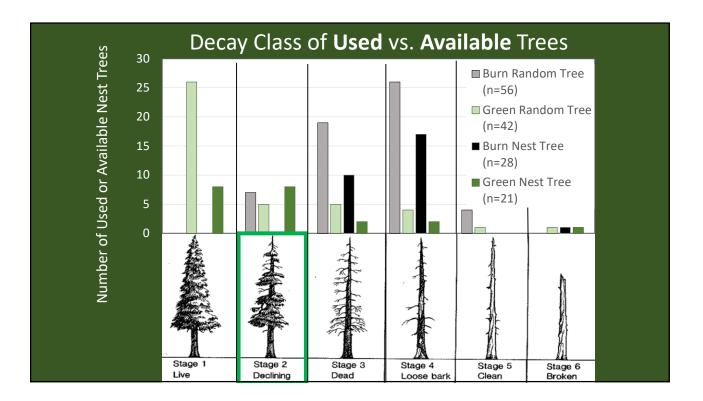
## Measuring Nestling Provisioning:

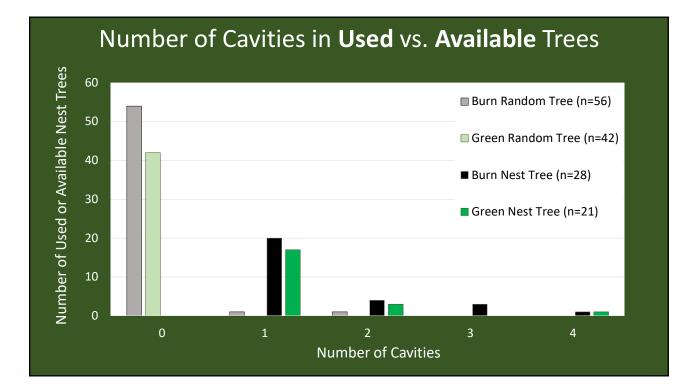
Are there differences in overall provisioning rates between green and burned forests?

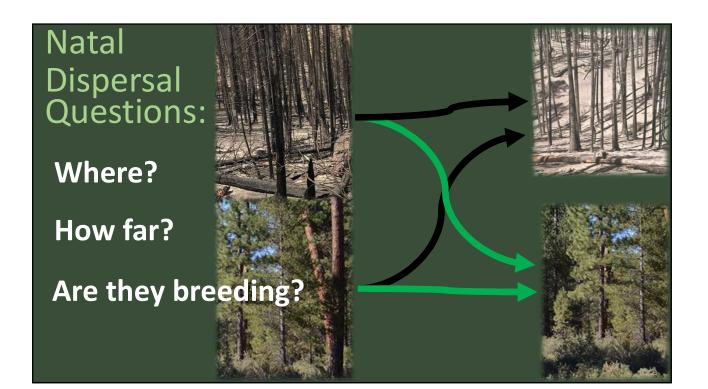
How do males and females provision differently between green and burned forests?

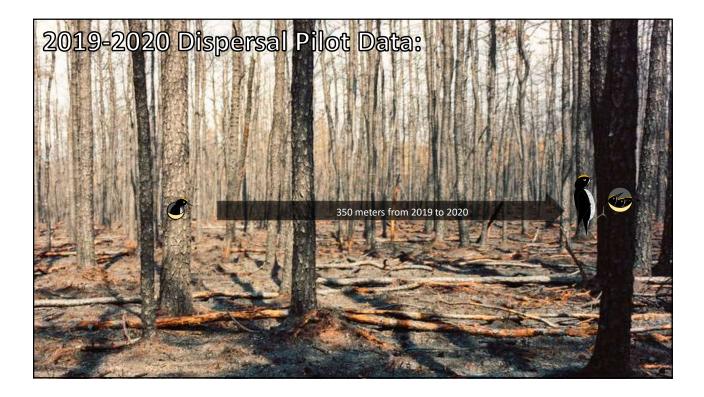
# How do their used nest-sites in **green** forests compare to those in **burned** forests?

# Ouantifying Nest-Site Selection

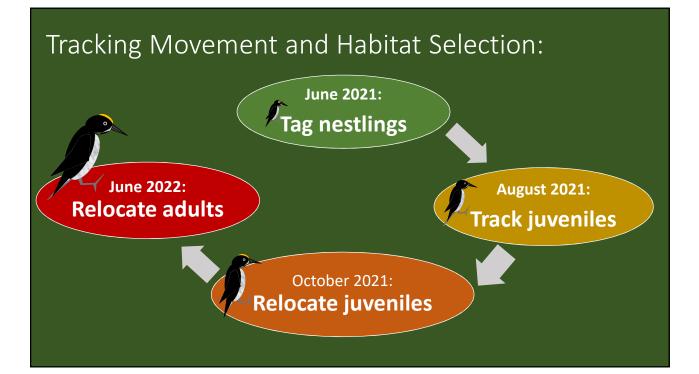












# Preliminary Conclusions:

How are the they impacted by breeding in green vs burned forests? -Apparent Nest Success → Similar

-Juvenile Body Condition  $\rightarrow$  Potentially improved in green forest

-Juvenile Survival → Similar

-Parental provisioning of nestlings  $\rightarrow$  TBD

How does their use of **green** forests compare to **burned** forests? →Use different cues to select optimal nest-sites for a given forest

How do juveniles disperse and choose breeding habitat on the landscape?  $\rightarrow$  TBD



