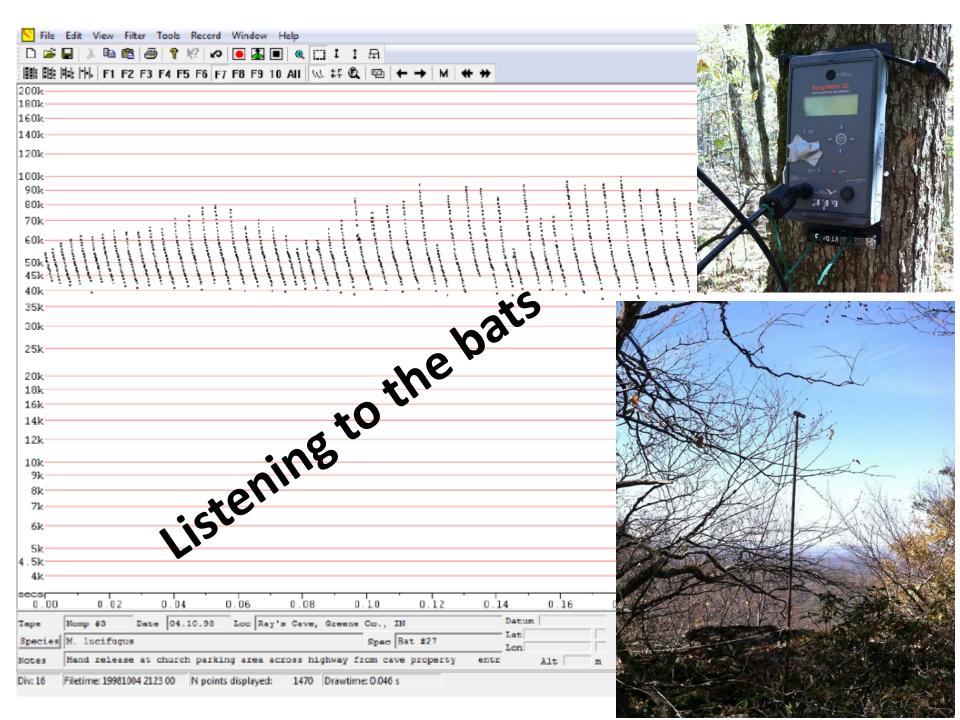


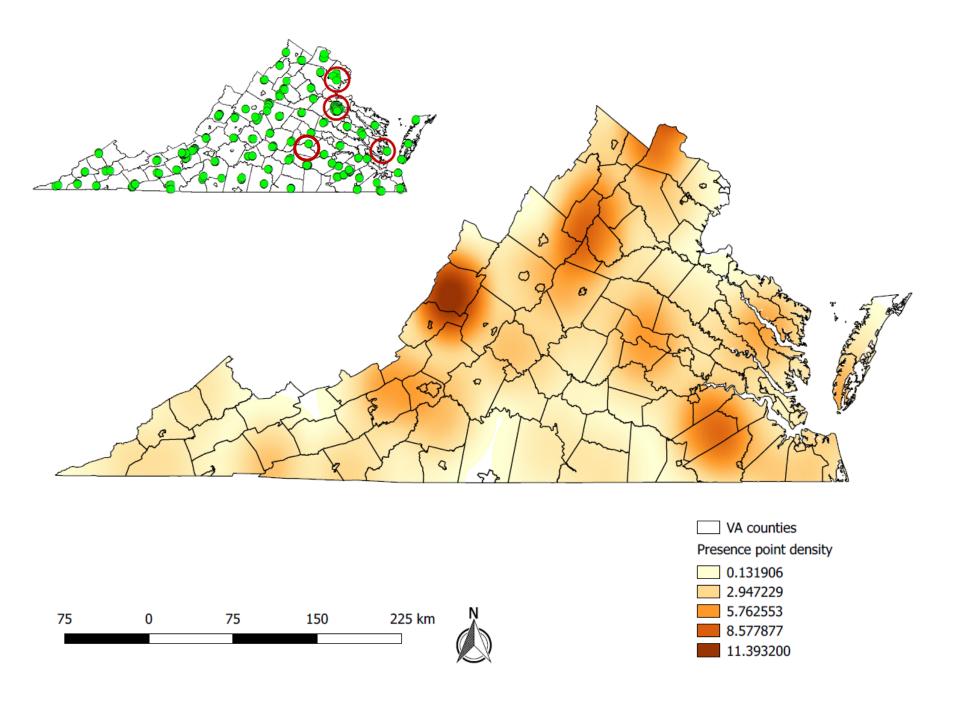
W. Mark Ford, U.S. Geological Survey, Virginia Cooperative Fish and Wildlife Research Unit

Corinne A. Diggins, Department of Fisheries and Wildlife Conservation, Virginia Tech



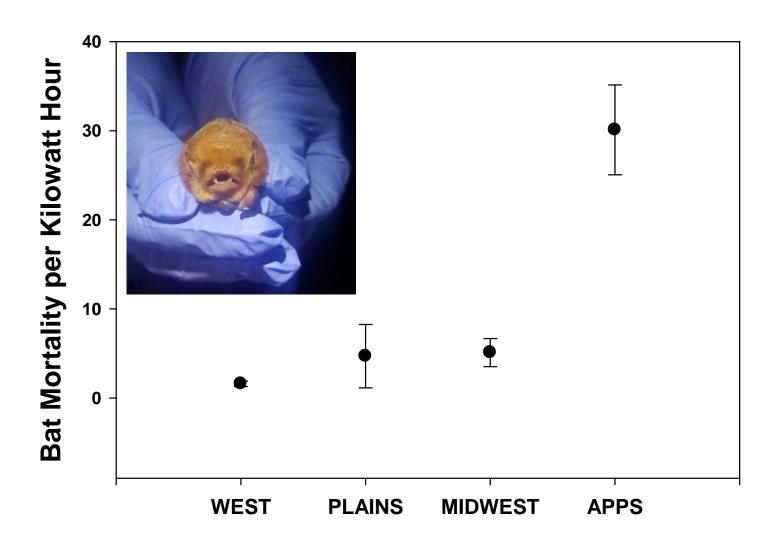






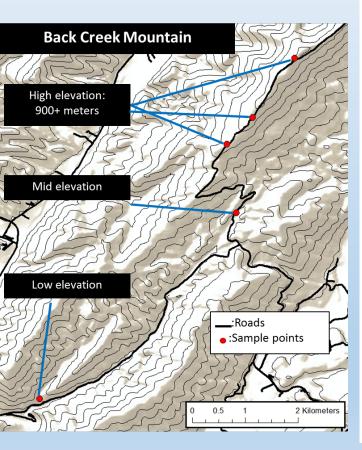


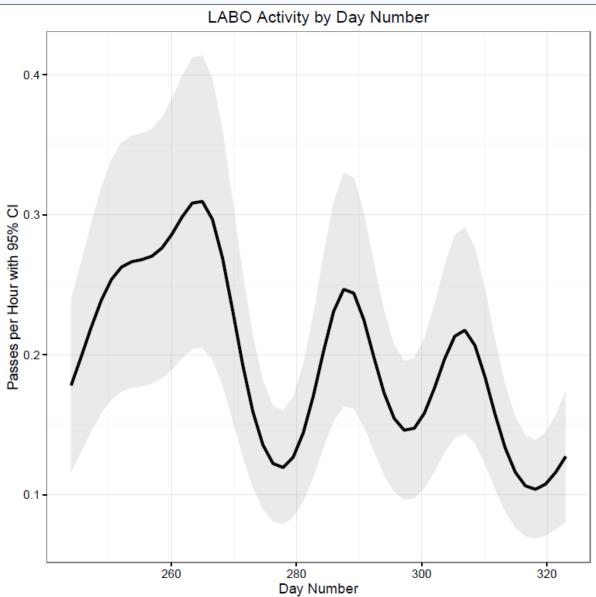
Differential Mortality by Region



Gruver and Bishop-Boros. 2015. EDP Renewanables North America Report.

Eastern Red Bat









METHODS

- 10 areas, each with a cluster of 3 PetterssonD500x detectors
- Spring (early May), Summer (Julyearly August), Fall (late September-October) survey periods in 2015 in spruce, spruce-fir or fir
- 1-11 detector "nights" per detector per season
- Bat identification in Kaleidoscope
 4.2 on neutral (0) setting
- Single-season multiple survey occupancy and detection probability in Program PRESENCE
- Relative activity by season blocked with site cluster and elevation and canopy height as random variables modeled in SAS using PROC GLIMMIX

Tennessee

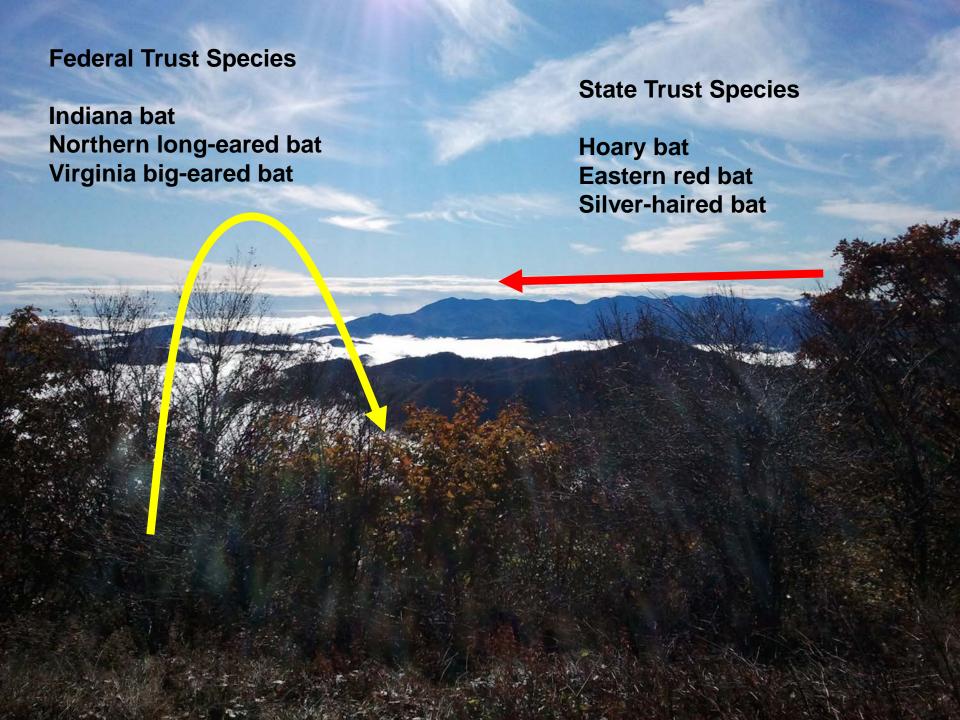
North Carolina



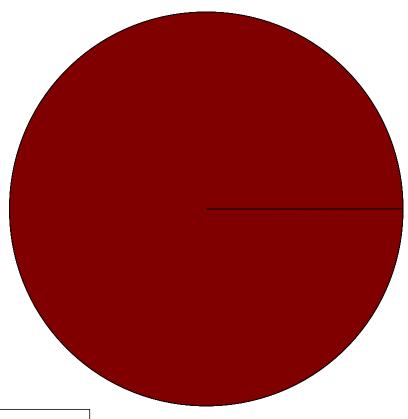






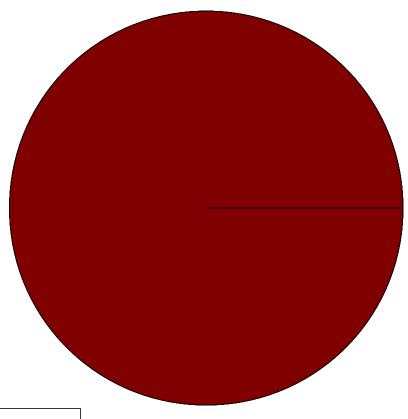


SPRING 2015 - 921 BAT PASSES 205 DETECTOR NIGHTS



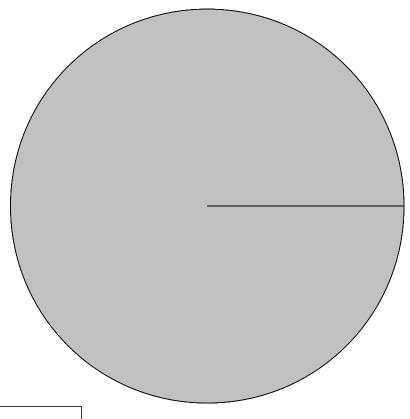


SUMMER 2015 - 1545 BAT PASSES 146 DETECTOR NIGHTS



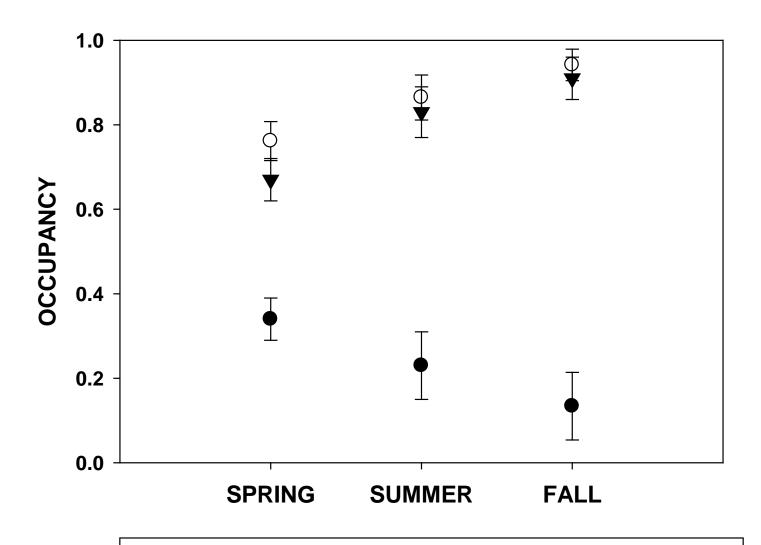


FALL 2015 - 539 BAT PASSES 158 DETECTOR NIGHTS

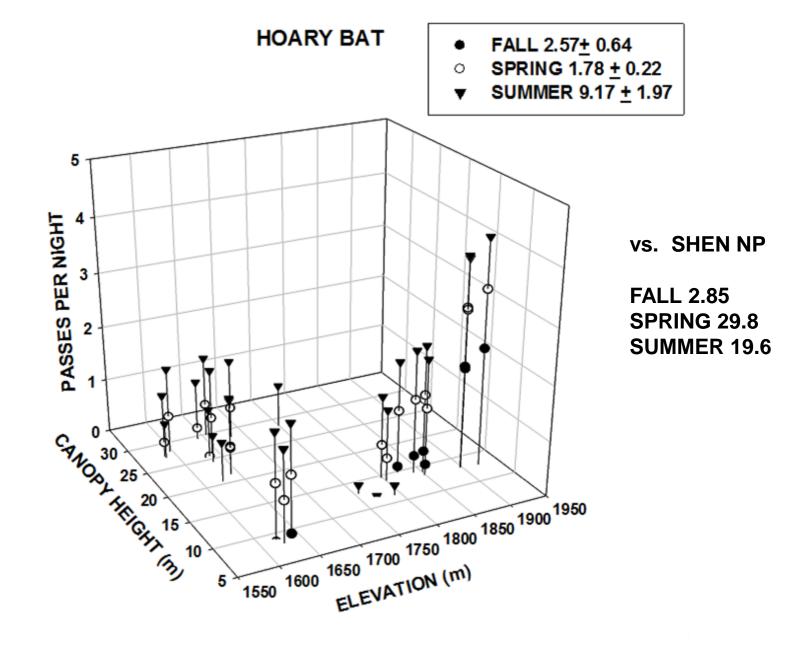




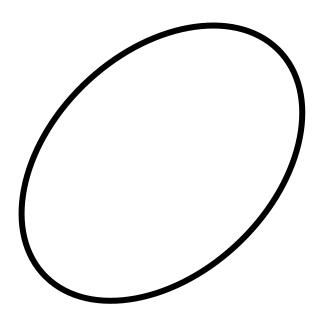
TREE BATS IN SPRUCE-FIR



- EASTERN RED BAT detection probability = 0.14 + 0.10
- O HOARY BAT detection probability = 0.56 + 0.02
- **▼** SILVER-HAIRED BAT detection probability = 0.41 + 0.25



Tennessee



North Carolina

