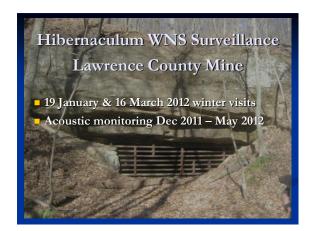
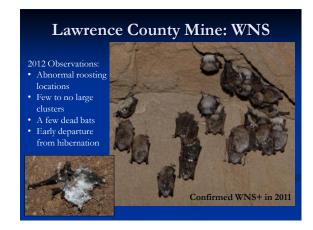


## Wayne NF: Agency Update

- 1. Hibernaculum/WNS Surveillance
- 2. WNS-related Research
- 3. Habitat Improvement Projects
- 4. Forest-wide Acoustic Transects
- 5. Fall Swarming Surveys
- 6. Information & Education







#### Hibernaculum WNS Surveillance 2012 2012 Midwinter Species 2011 March % Change January MYLU (Little Brown) -78.5% 916 1753 377 MYSO (Indiana) 276 277 4 -99.9% PESU (Tri-color/Pip) 134 214 106 -50.5% EPFU (Big Brown) 3 11 0 -100.0% MYSE (Northern) 1 24 11 -54.2% Unidentified 4 72 1 Total 1334 2351 499 -78.8%

#### Hibernaculum WNS Surveillance

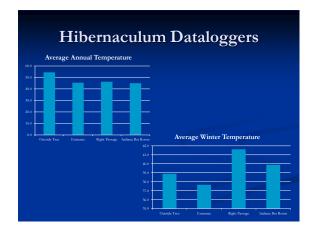
- More bats counted in Jan 2012 than ever before; could be WNS-indicative behavior of bats moving toward the entrance (where they could be counted)
- Confounding factor: extremely mild winter of 2011-2012 (Early Departure or Mortality?)
  - Only ~10 bats found dead; guessing at early departure
  - Based on previous yrs, bats should still be hibernating in late March, but MYSO were already gone
  - Take Percent Change with a grain of salt
- By March, most bats appeared affected

#### WNS-related Research

- August 2012 ... with Anne Ballmann, USGS National Wildlife Health Center (Assessing the risk of Geomyces destructans transmission in bats using contaminated hibernacula during late summer)
  - Overview: sample bats at 8 different hibernacula within the WNS confirmed region:
    - 3 contaminated hibernacula that have experienced winter population declines, 3 recently contaminated, and 2 apparently unaffected hibernacula.

# Assessing the risk of *Geomyces destructans* transmission during late summer

- Conducted non-lethal screening of wings with long-wave UV light and collected wing swabs during evening emergence.
- Collected demographic data, measurements, and fecal samples.
- Collected environmental samples from inside each hibernaculum (where bats have historically roosted in large clusters).







### Forest-wide Acoustic Transects

- Collecting data since 2009 on 3 routes
- 3 additional routes established in 2010 (2 transects each in Athens, Marietta, & Ironton)
- Minimum 3 samples in Summer
  - 1 June to 15 July
- Minimum 3 samples in Fall
  - 1 August to 30 September





