

Latest research efforts to address wildlife hazards to aviation.

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Airport Wildlife Hazards Program***

CARSAMPAF / 9
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WS Wildlife Services

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Protecting Agriculture
Protecting Wildlife



United States Department of Agriculture
Animal and Plant Health Inspection Service

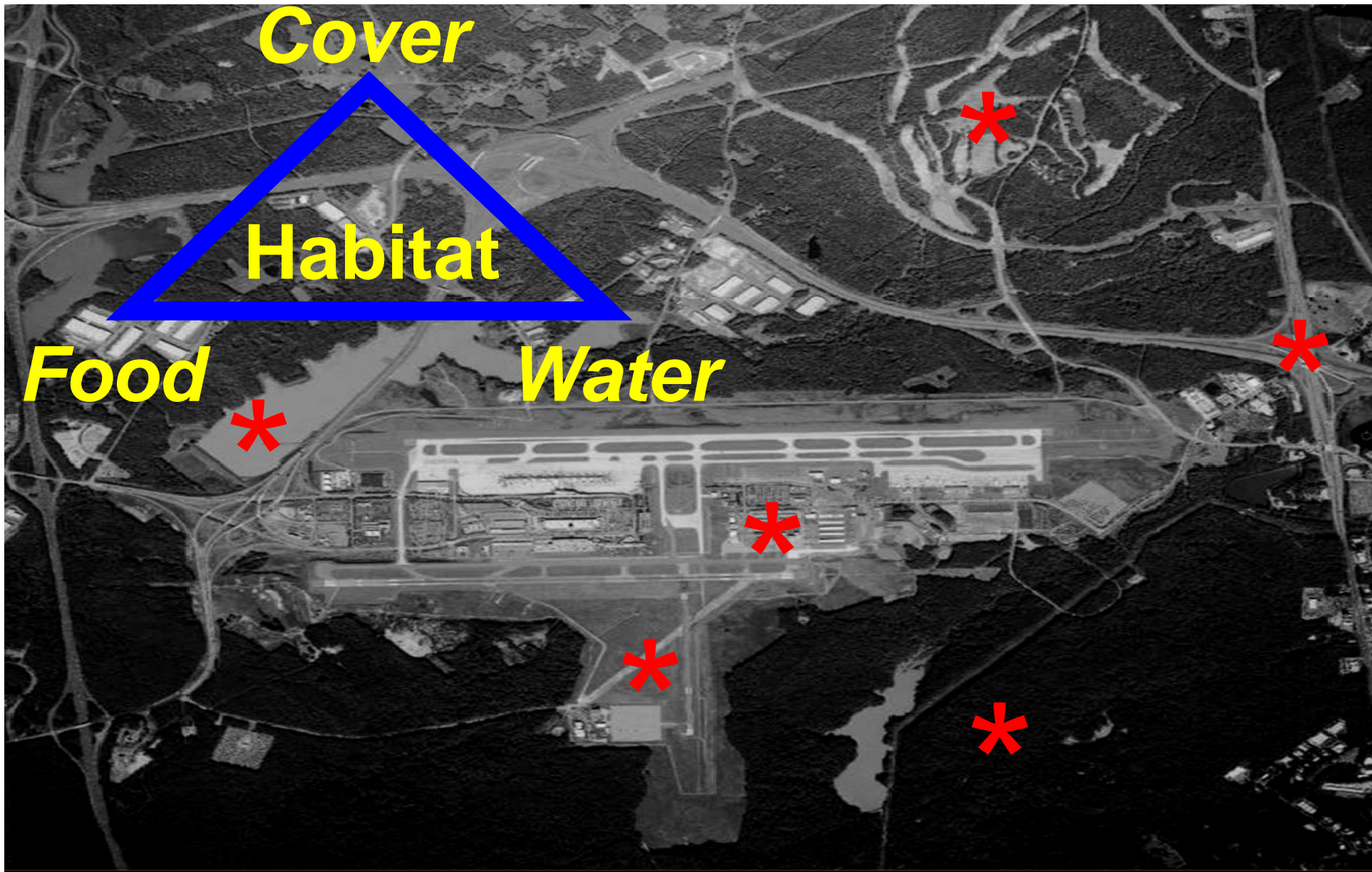
**15 January 2009,
US Airways Flight 1549**



**04 March 2008,
Citation 500 - Wiley Post, OK**

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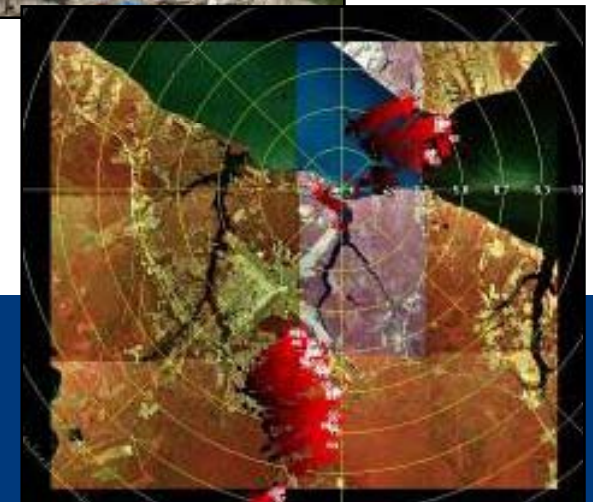
Protecting People
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FAA and USDA National Wildlife Research Center



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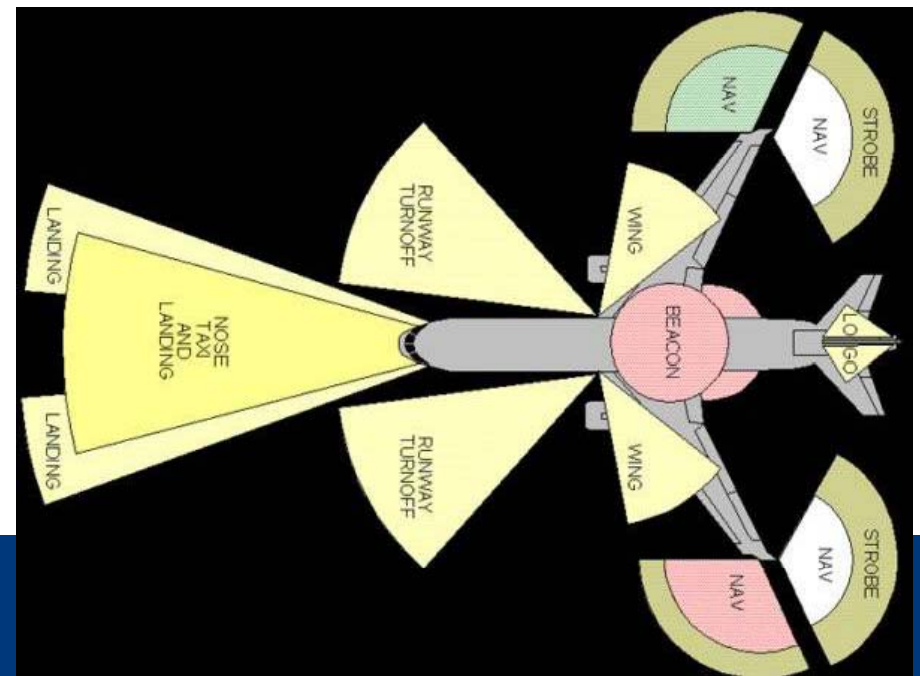
Aircraft lights and birds

How do birds react to approaching aircraft with and without lights?

How do species differ in their response to approaching aircraft?

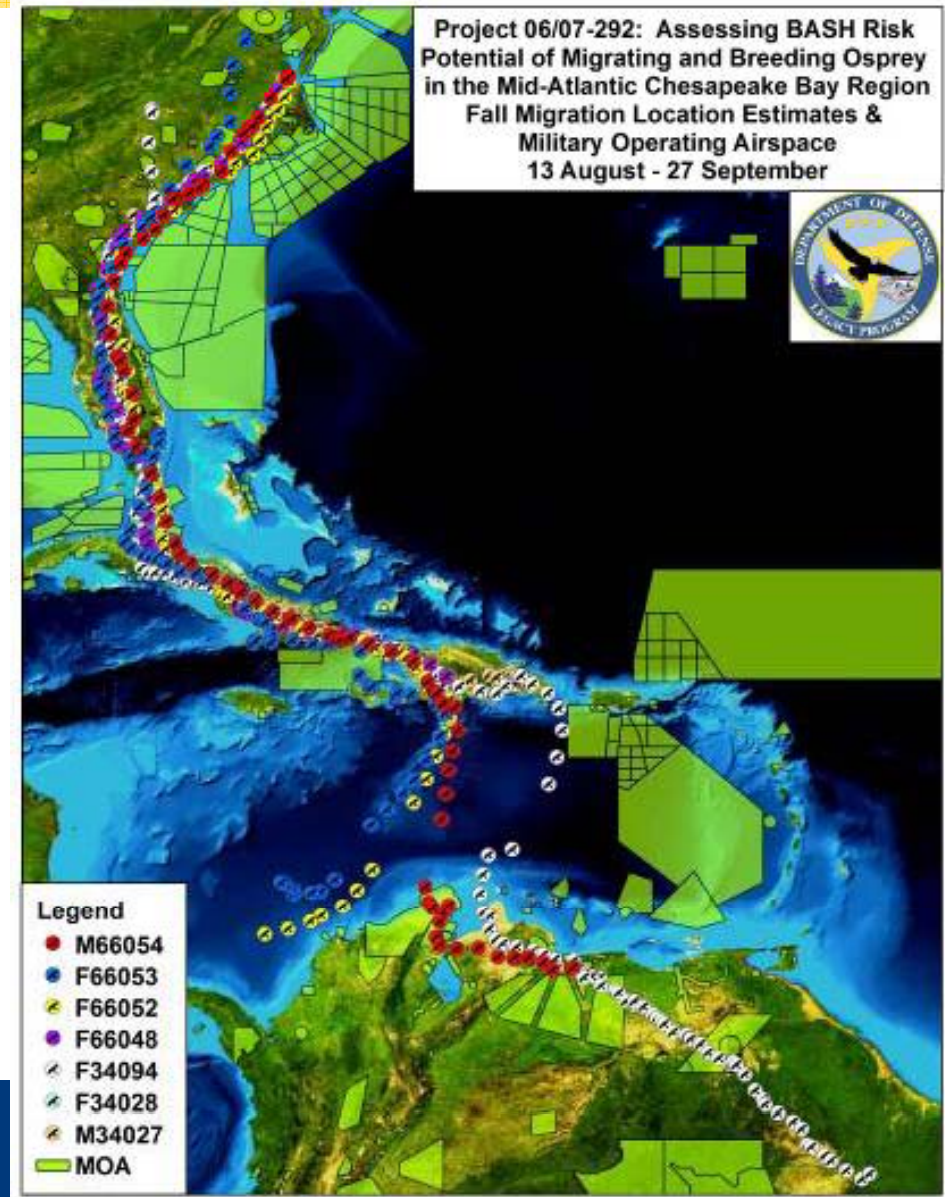
Does bird activity and behavior influence reaction distance?

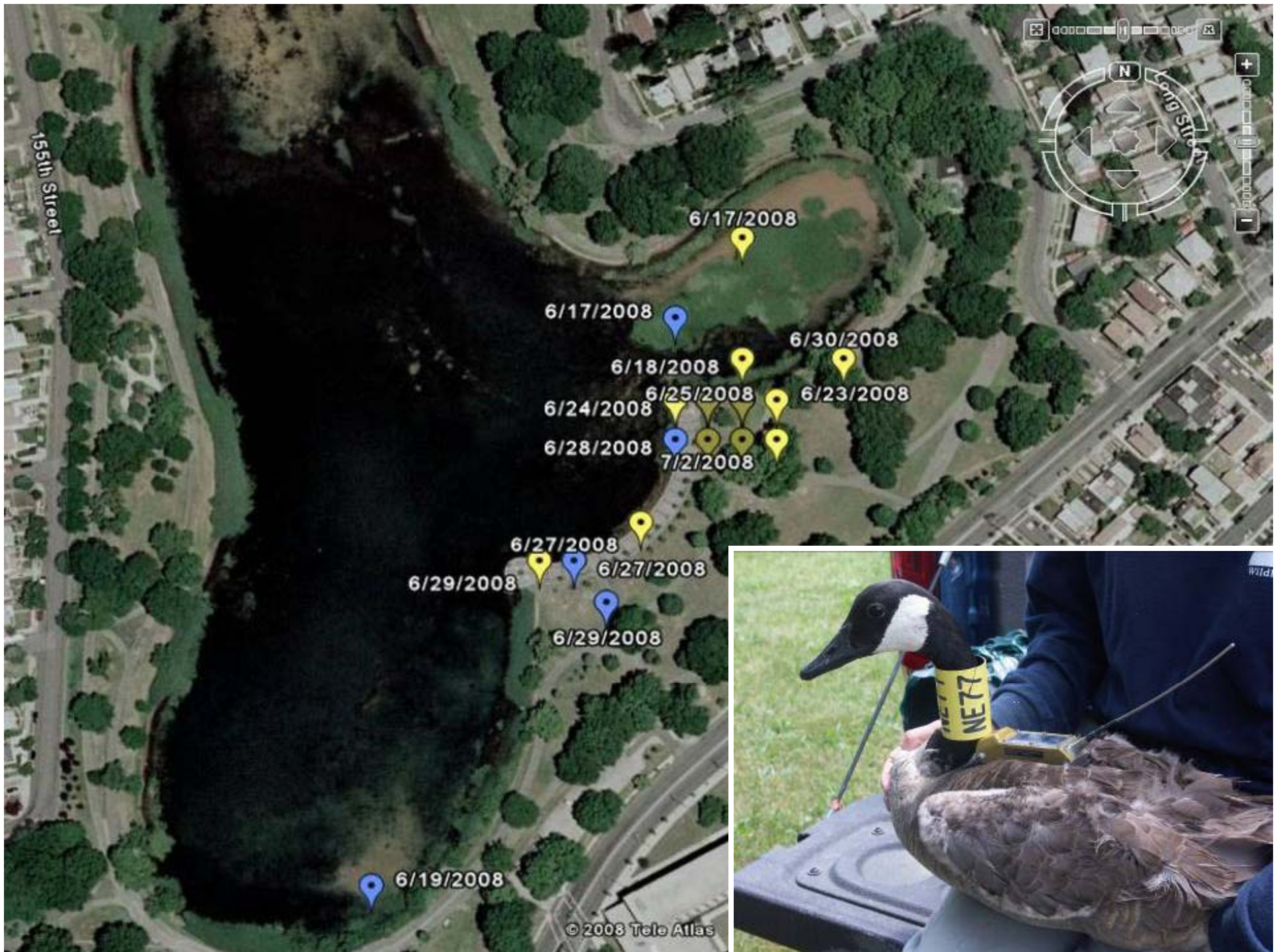
How does aircraft form and Color influence bird reaction?



Osprey migration study

- Identify migration routes and travel patterns
- Intersection with military operating airspace





Canada goose foraging preferences



Canada goose foraging preferences

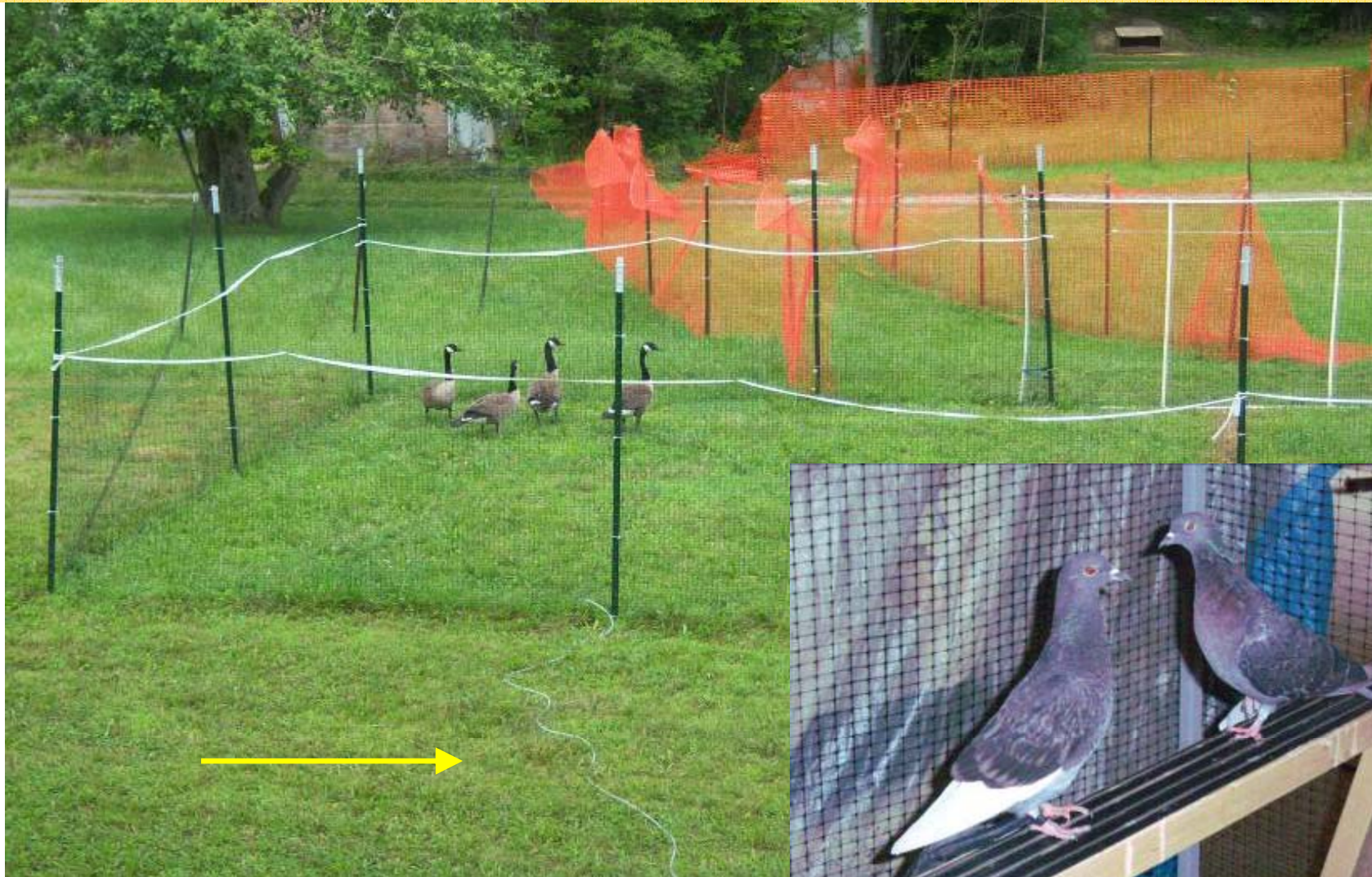


Earthworm repellants

- **No registered toxicants**
- **Physical barriers possible but require expense and retrofitting**
- **Currently testing**
 - **Naturally occurring compounds**
 - **Abrasive materials**



Anti-perching devices



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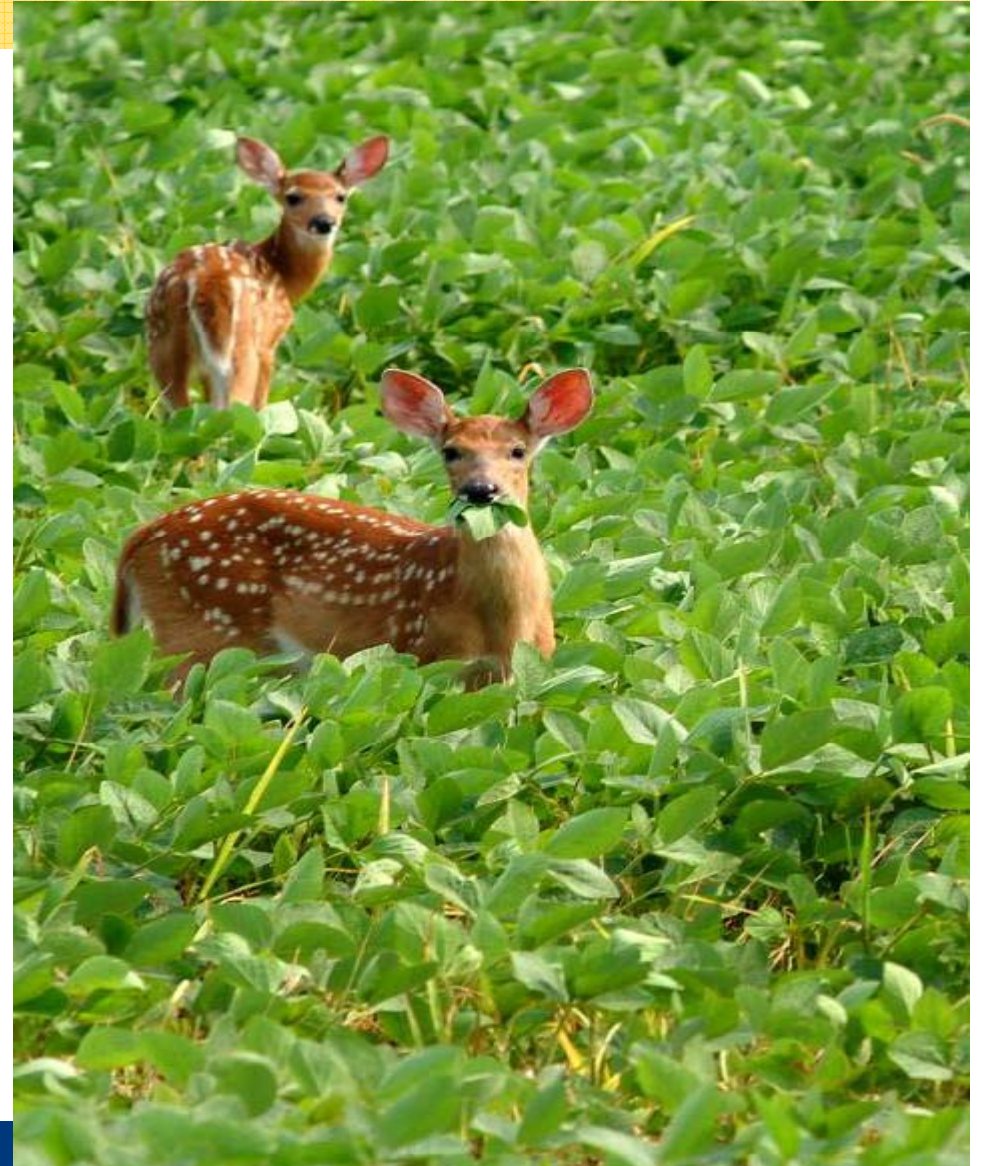
Alternate land use: Are prairies safe for airports?

- **Little information available concerning the hazard level of prairies relative to turf grasses**
- **Examine wildlife and insect communities at airport and adjacent prairies**



Which crops and farming practices are compatible with airports?

- Cotton?
- Soybeans?
- **Bio-fuel crops?**
- Hay?



Stormwater management on and near airports



Evaluating the use of radar at airports

- **Validation of radar accuracy and target acquisition capabilities**
- **Procedures for effective use**
- **Assess contribution to overall wildlife hazard management plan**





Latest research updates provided
New Operation techniques
New approaches and procedures discussed
300 – 450 individuals attend from all over the world

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http://www.aphis.usda.gov/wildlife_damage/nwrc/research/aviation/index.shtml

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