

A large commercial airplane is flying towards the viewer, surrounded by a massive flock of birds, likely seabirds, against a clear blue sky. The birds are scattered throughout the frame, creating a sense of a high-density wildlife environment. The airplane is positioned in the center, slightly below the main title.

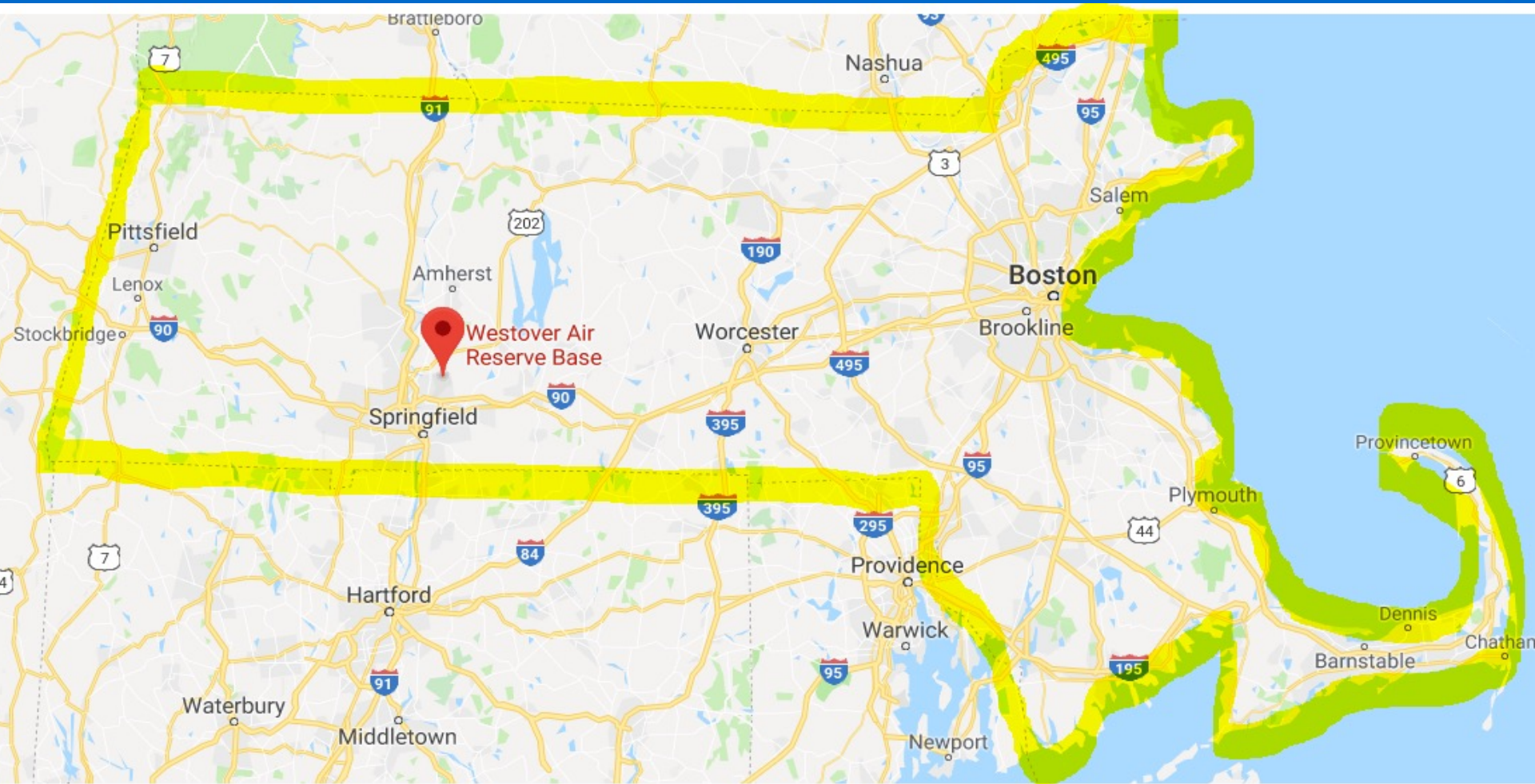
Successful Wildlife Hazard Management Programs

DAVE MOORE

Air National Guard Flight Safety

Strategic Results, LLC











Relationships

- **Every Stakeholder gets Involved**
 - **Leadership/Commander/Airfield Manager**
 - **Aircraft Operators/Flight Crews**
 - **Air Traffic Control/Control Tower**
 - **Aircraft Maintenance**
 - **Real Property Managers**
 - **Wildlife Biologists on Airfield**
 - **Look Beyond the Airfield Boundary**
 - **Off-Base Activities**
 - **Landfills**
 - **Golf Courses**
 - **Wildlife Sanctuaries**

Include all Stakeholders in your Plan



Customized for your Airfield Environment



Flight Operations
Flight Management
Flight Crews
Control Tower/ATC

Safety Professionals
Legal Advisor
Public Affairs

Aircraft Maintenance
Vital role with strike remains
Assessment of aircraft
damage

Environmental steward
Real Property Managers
Habitat Management
Grasslands, Wetlands, Forests

Other Agencies
US Dept of Agriculture
Wildlife Biologists
Land Fill Operators
Golf Course Operators
Wildlife Sanctuaries, etc.

Dr. Russell DeFusco

- **Former Chief, USAF BASH Team**
- **Ph. D Ornithologist**
- **Long time advisor on program management**

RISK MANAGEMENT TECHNIQUES

- Habitat Management
- Passive Techniques
- Active Dispersal
- Depredation
- Operational Planning
- Flight Scheduling
- Communications
- Data Collection and Trend Analysis



A fighter jet is shown in flight, banking to the right, against a backdrop of a dense green forest. The foreground consists of a wetland area with tall green reeds and a shallow body of water. The overall scene suggests a conflict between military operations and natural habitats.

HABITAT MANAGEMENT

**CRUX OF WILDLIFE
HAZARD MANAGEMENT
PROGRAMS**

VEGETATIVE COVER



7-14 Inches – Air Force Mandate

PROPER TURF MANAGEMENT:

1. Grass indigestible to majority of wildlife species
2. Intermediate height disrupts visual interflock communication
3. Limits predator detection
4. Obscures invertebrate food sources
5. Impedes ease of movement
6. Out-competes weedy vegetation
7. Taller grass becomes senescent and has slower growth rate
8. Less frequent mowing

\$AVES MONEY!!!!

TURF MANAGEMENT



TURF MANAGEMENT





PASSIVE TECHNIQUES



LARGE MAMMALS



OTHER WILDLIFE

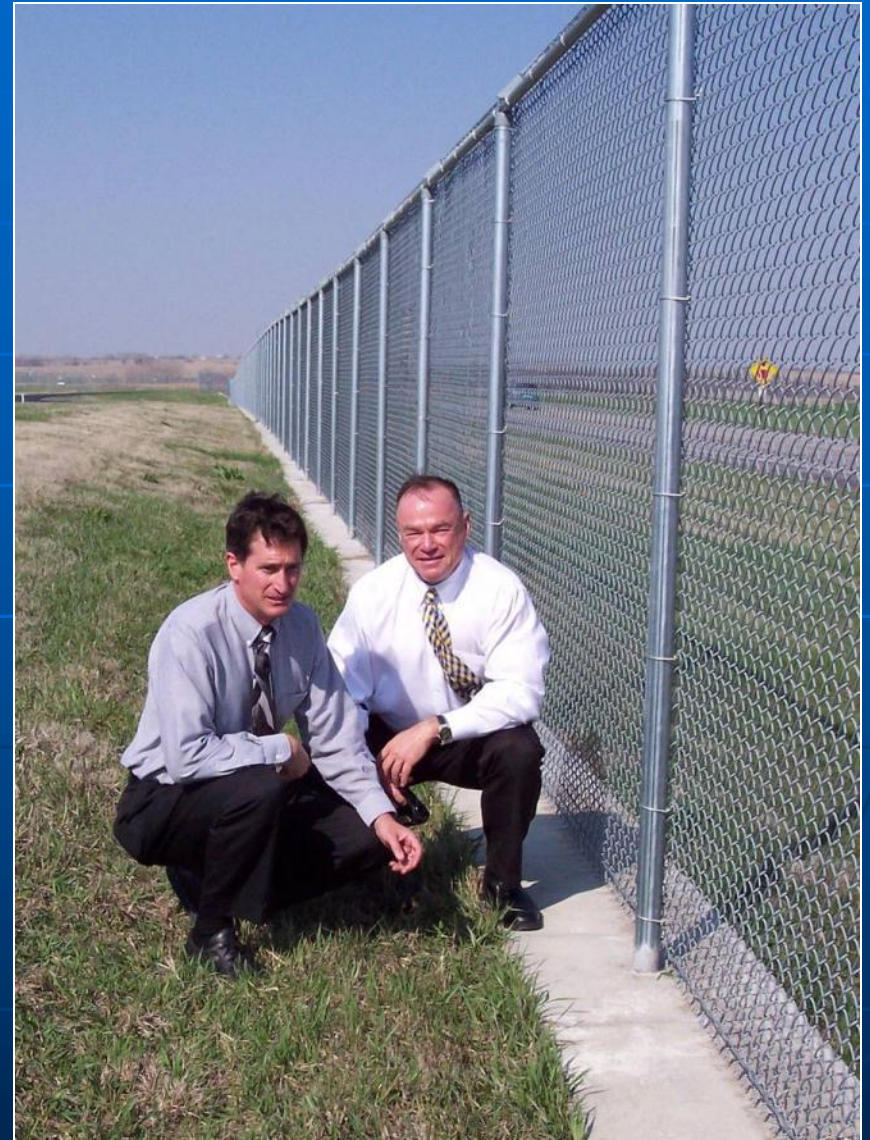


PREDATORS





Perimeter Fencing



Fences – 8 feet chain link plus outriggers and footers



TREES AND BRUSH



TREES AND BRUSH



WETLANDS/DRAINAGE



WETLANDS/DRAINAGE



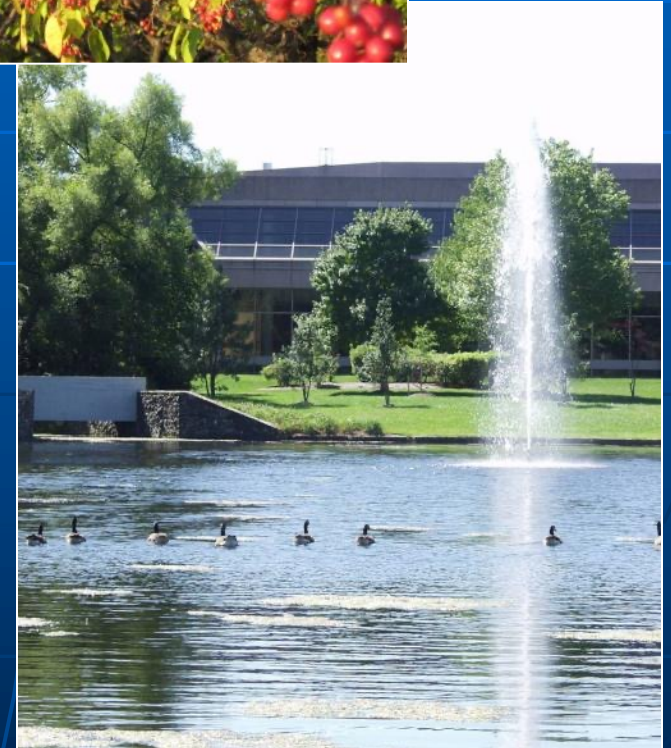
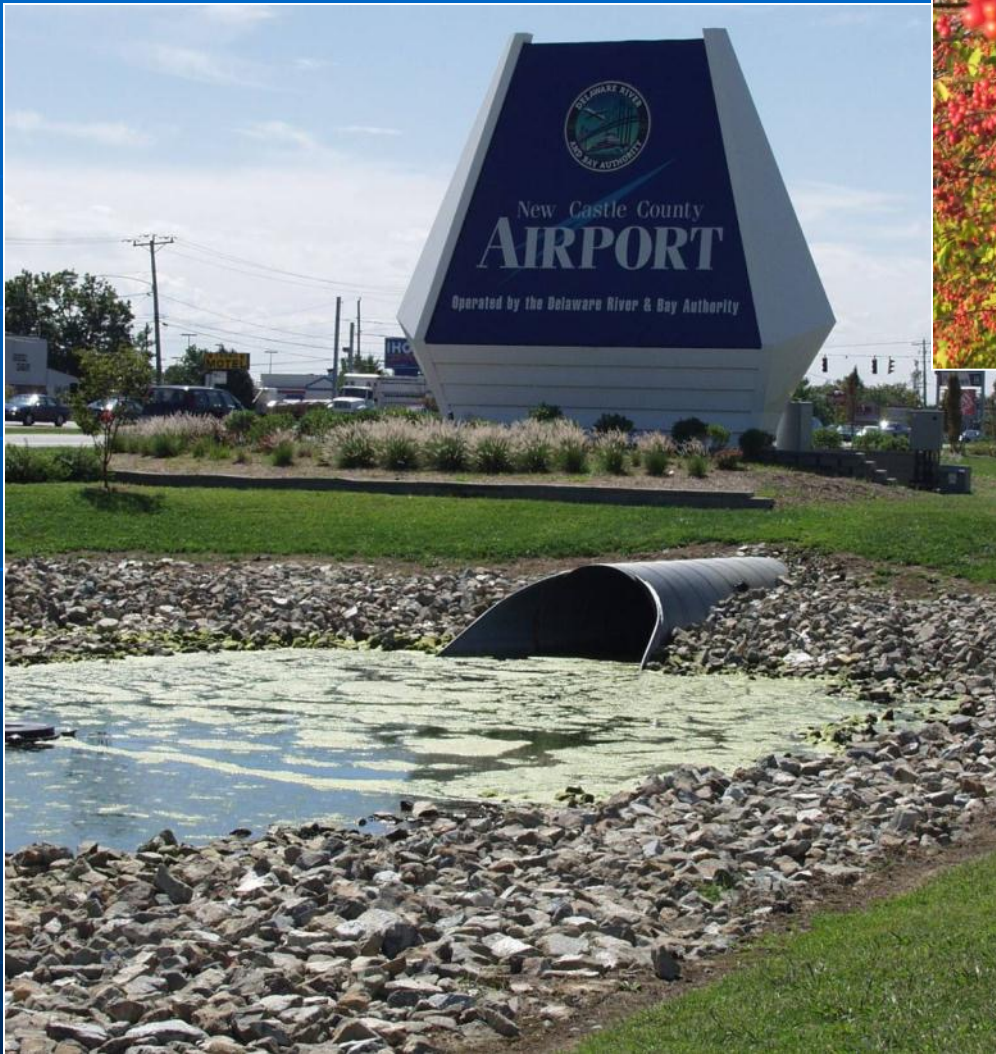
OLD SURFACES



OLD SURFACES



Airport Landscaping

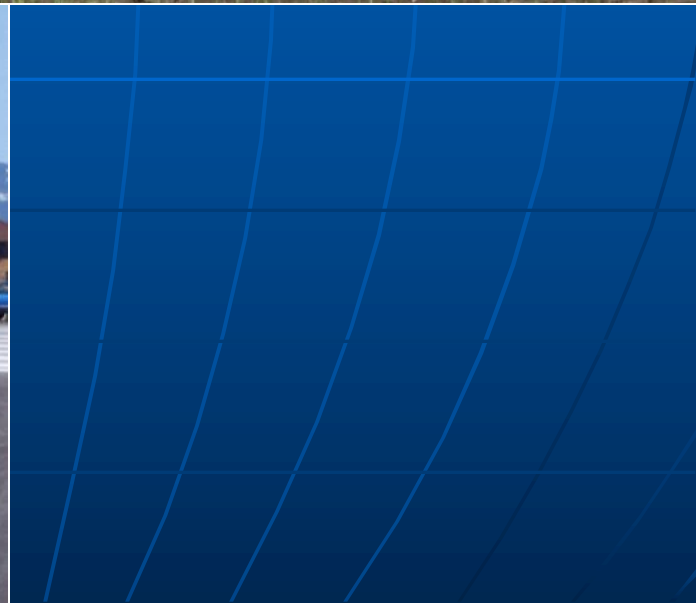


OFF-AIRPORT HAZARDS COMMUNITY PLANNING



ACTIVE DISPERSAL

See AF Pamphlet 91-212



ACTIVE DISPERSAL

- Pyrotechnics



OTHER ACTIVE TECHNIQUES



DEPREDATION



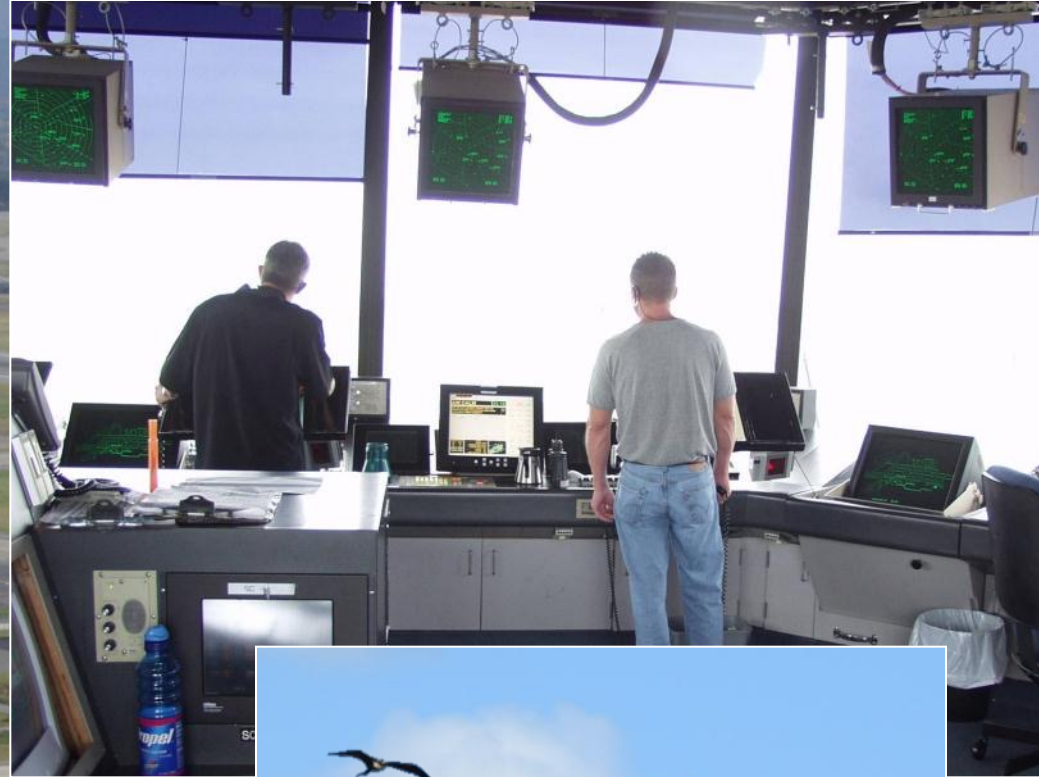
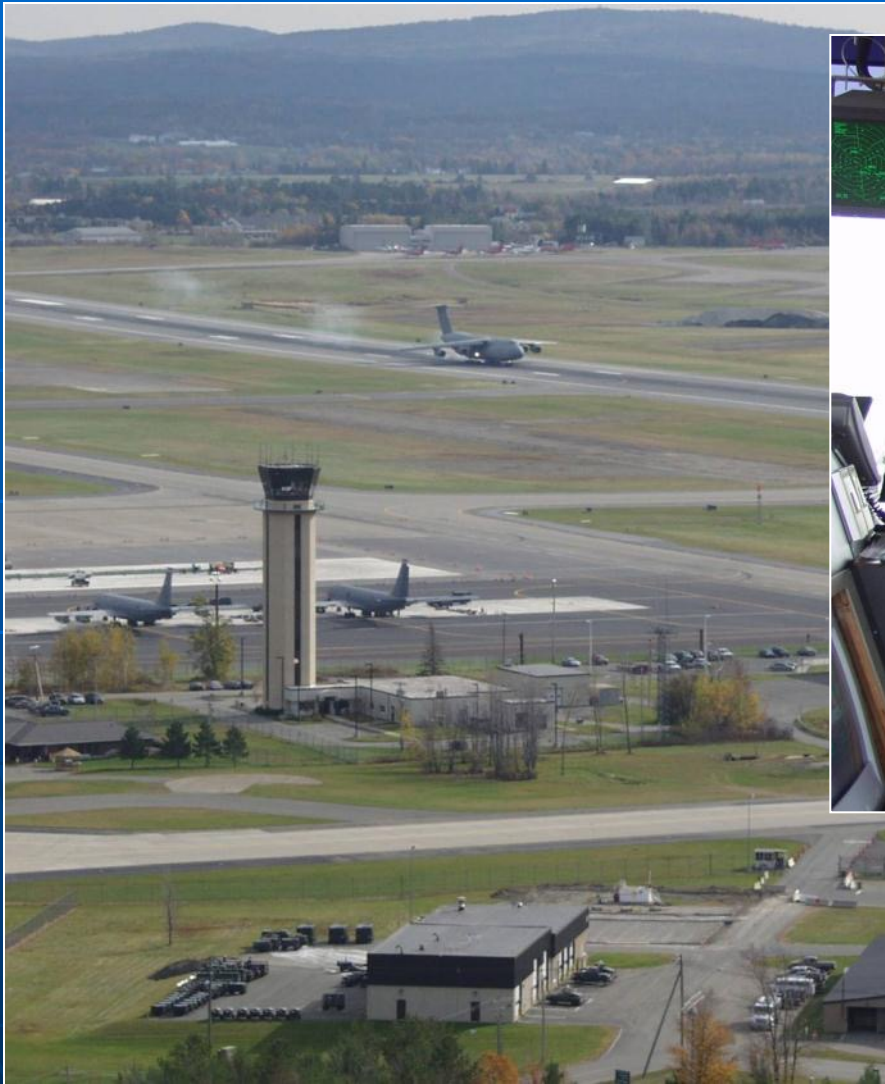
Equipment and Procedures



USDA SUPPORT



COMMUNICATIONS



BIRD WATCH CONDITION CODES

- **LOW** – Bird activity on or around the airfield representing low potential for strikes



BIRD WATCH CONDITION CODES

- **MODERATE** – Bird activity near the active runway or other specific location representing increased potential for strikes



BIRD WATCH CONDITION CODES

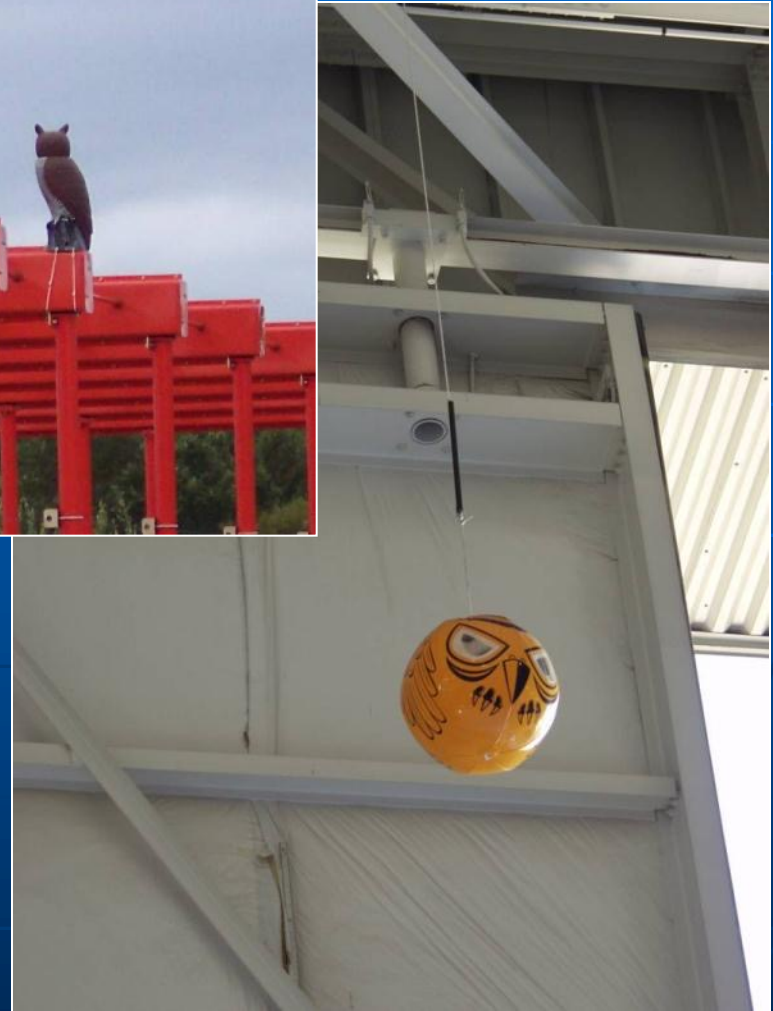
- **SEVERE** – Bird activity on or immediately above the active runway or other specific location representing high potential for strikes

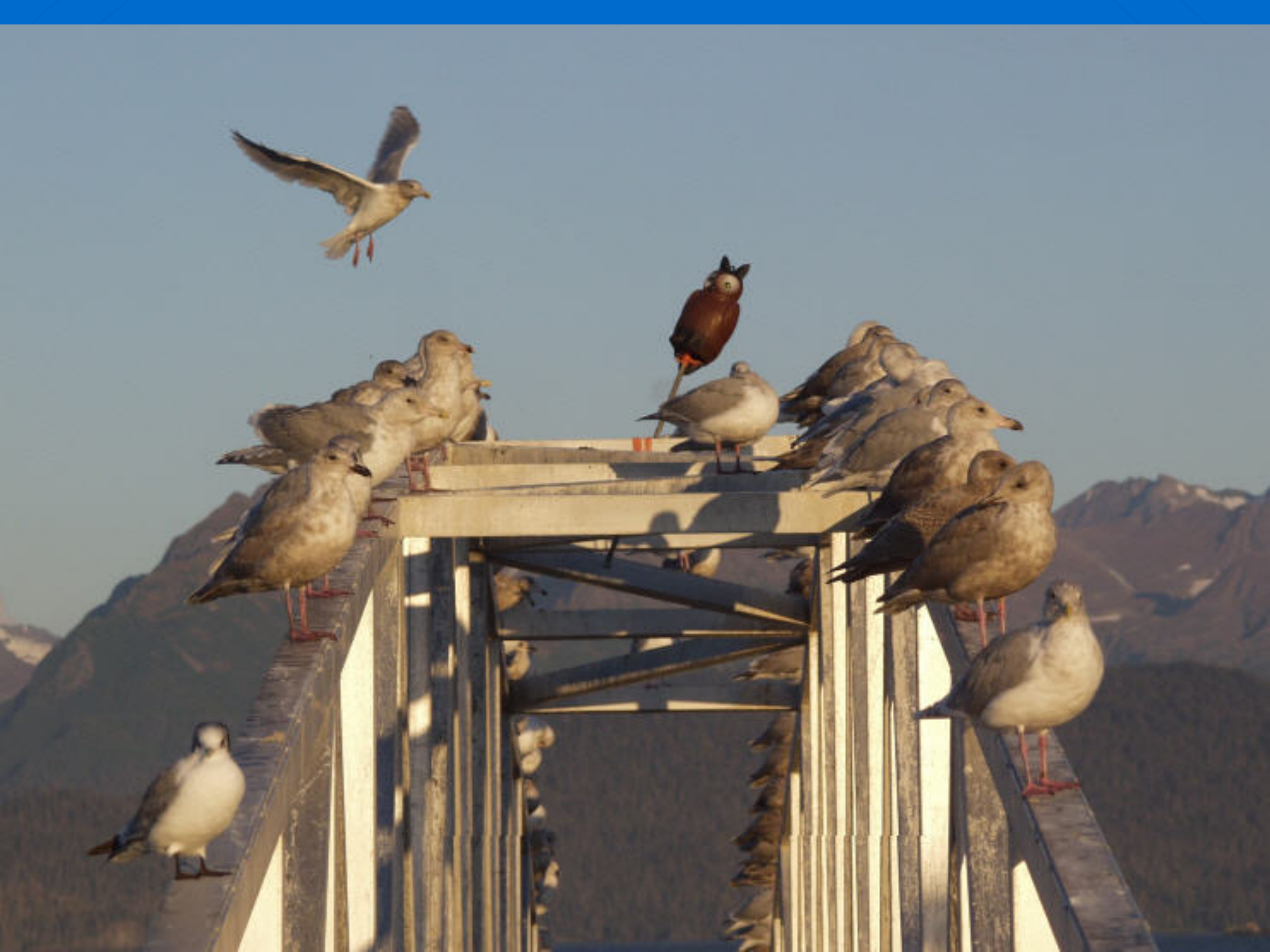




Mixed flock of blackbirds entering roost at dusk, <2 miles from Memphis International Airport, January 2007

INEFFECTIVE TECHNIQUES





Federally-listed T&E Species



Whooping Crane
Grus americana





State Listed T & E species



© Dave Rintoul, 2004











TURF MANAGEMENT













Bird Strikes: How to Collect, Ship Remains, and Have Bird Remains Identified









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Flight Crews
Control Tower/ATC

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Public Affairs

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Real Property Managers
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Wildlife Biologists
Land Fill Operators
Golf Course Operators
Wildlife Sanctuaries, etc.

QUESTIONS?

Dave Moore
Strategic Results, INC.
Air National Guard Flight Safety
(860) 304-0023
Dave.Moore@Strategicresults.Com