

Airport Wildlife Management Plans and Reality



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Ice Breaker

- If you work at an airport, Stand Up.
- If you're a Part 139 certificated airport, sit down.
- If you have a Wildlife Hazard Management Plan, sit down.
- All of you standing, this presentation is for you.

Goal/Theme

AWARENESS

Guiding Document



Advisory Circular

Subject: Protocol for the Conduct and Review of Wildlife Hazard Site Visits, Wildlife Hazard Assessments, and Wildlife Hazard Management Plans
Date: 8/20/2018
Initiated By: AAS-300
AC No: 150/5200-38
Change:

- 1 **Purpose.**
 For certificated airports, this Advisory Circular (AC) defines the minimum acceptable standards for the conduct and preparation of Wildlife Hazard Site Visits (Site Visit), Wildlife Hazard Assessments (Assessments) and Wildlife Hazard Management Plans (Plans). This AC provides guidelines that discuss whether a Site Visit can be conducted or whether an Assessment must be conducted under Part 139. In the case of airports that are not Part 139 certificated, this AC provides guidelines as to when a Site Visit or Assessment is recommended. The AC further defines and explains continual monitoring programs. This AC also provides checklists to help people evaluate Site Visits, Assessments and Plans.
- 2 **Applicability.**
 This AC describes an acceptable means, but not the only means, for airports that hold Airport Operating Certificates issued under 14 CFR part 139 subpart D ("Certificated Airports"), to comply with the wildlife hazard management requirements in 14 CFR § 139.337. For non-certificated airports, the standards, practices, and recommendations contained in this AC are recommended during the conduct and preparation of Site Visits, Assessments and Plans. The FAA also recommends this guidance for all Qualified Airport Wildlife Biologists (QAWBs)¹, land-use planners, and developers of projects, facilities, and activities on or near airports. Finally, in accordance with AIP Grant Assurance 34 and PFC Program Assurance B(9), if an airport uses Federal funds or Passenger Facility Charge revenue for Site Visits or Assessments, then the protocols

¹ The term "wildlife damage management biologist" is used in 14 CFR § 139.337. That term is outdated, and "qualified airport wildlife biologist," which is used in this AC, has the same meaning for purposes of complying with part 139.



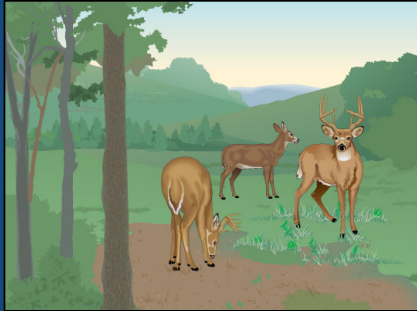
**What the
Guidance
Wants.**

**What you
can afford.**

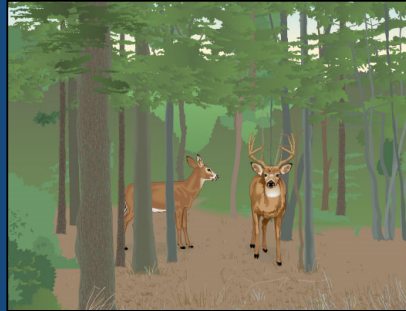


Wildlife Habitat

An area that meets the life requirements of one or more animal species.



Food



Cover



Water

Wildlife Habitat



Wildlife Hazard Site Visit

Purpose: To provide an abbreviated analysis of an airport's wildlife hazards, determine if an assessment is warranted, and if necessary, and provide actionable information that allows the airport to expedite the mitigation of these hazards.

Elements:

- Gathering airport information
- Field observations
- Final report with recommendations

Site Visit

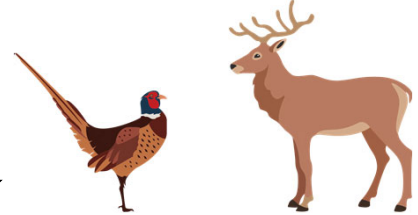


1-3 Days

Airport Information



Field Observations



REPORT



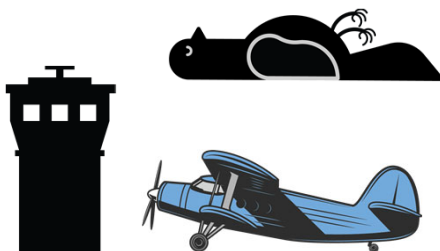
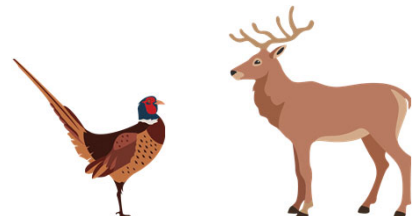
Wildlife Hazard Assessment

Objective: To provide a baseline of data and understanding of wildlife species considered hazardous on or near an airport, and of attractants that provide food, water, and shelter.

Elements:

- Analysis of the event or circumstances that prompted the assessment.
- **Identification of the wildlife species observed and their numbers, locations, local movements, and daily and seasonal occurrences.**
- **Identification and location of features on and near the airport that attract wildlife.**
- **A description of wildlife hazards to air carrier operations.**
- Recommended actions for reducing identified wildlife hazards to air carrier operations.

Wildlife Hazard Assessment = Site Visit  **1-3 Days X 120**



Wildlife Hazard Site Visit

Wildlife Hazard Assessment

Do I Have a Problem?

1. What's on my airport?
2. Where are they on my airport?
3. What are they doing on my airport?
4. Why are they on my airport?
5. When are they on my airport?
6. What problems are they causing on my airport?
7. What can I do to get rid of them from my airport?

I Have a Problem!



**You Own the
Problem!**

Ignorance is not a defense



Wildlife Hazard Management Plan

Goal: To minimize the risk to aviation safety, airport structures or equipment, or human health posed by the population of hazardous wildlife on and around the airport.

139.337 (f):

1. A list of the individuals having authority and responsibility for implementing each aspect of the plan.
2. A list prioritizing the following actions identified in the wildlife hazard assessment and target dates for their initiation and completion:
 - Wildlife Population Management
 - Habitat Modification; and
 - Land use changes
3. Requirements for and, where applicable, copies of local, State, and Federal wildlife control permits.

Wildlife Hazard Management Plan

Goal: To minimize the risk to aviation safety, airport structures or equipment, or human health posed by the population of hazardous wildlife on and around the airport.

139.337 (f):

4. Identification of resources that the certificate holder will provide to implement the plan.

Wildlife Hazard Management Plan

139.337 (f):

5. Procedures to be followed during air carrier operations that at a minimum includes:
 - Designation of personnel responsible for implementing the procedures;
 - Provisions to conduct physical inspections of the aircraft movement areas and other areas critical to successfully manage known wildlife hazards
 - Wildlife hazard control measures; and
 - Ways to communicate effectively between personnel conducting wildlife control or observing wildlife hazards and the air traffic control tower.

Wildlife Hazard Management Plan

139.337 (f):

6. Procedures to review and evaluate the wildlife hazard management plan every 12 consecutive months or following an event described in paragraphs (b)(1), (b)(2), and (b)(3) of this section, including:
 - The plan's effectiveness in dealing with known wildlife hazards on and in the airport's vicinity and
 - Aspects of the wildlife hazards described in the wildlife hazard assessment that should be reevaluated.

Wildlife Hazard Management Plan

139.337 (f):

7. A training program conducted by a qualified wildlife damage management biologist to provide airport personnel with the knowledge and skills needed to successfully carry out the wildlife hazard management plan required by paragraph (d) of this section.

WHA:

- What's on my airport?
- Where are they on my airport?
- What are they doing on my airport?
- Why are they on my airport?
- When are they on my airport?
- What problems are they causing on my airport?
- What can I do to get rid of them from my airport?

WHMP:

- Who has what Authority?
- What are my priorities for Population Management, Habitat Modification, Land use changes?
- Do I need Permits?
- What Resources do I need?
- What are my Procedures?
- Is my Plan effective?
- What Training do I need?

What a Plan isn't!

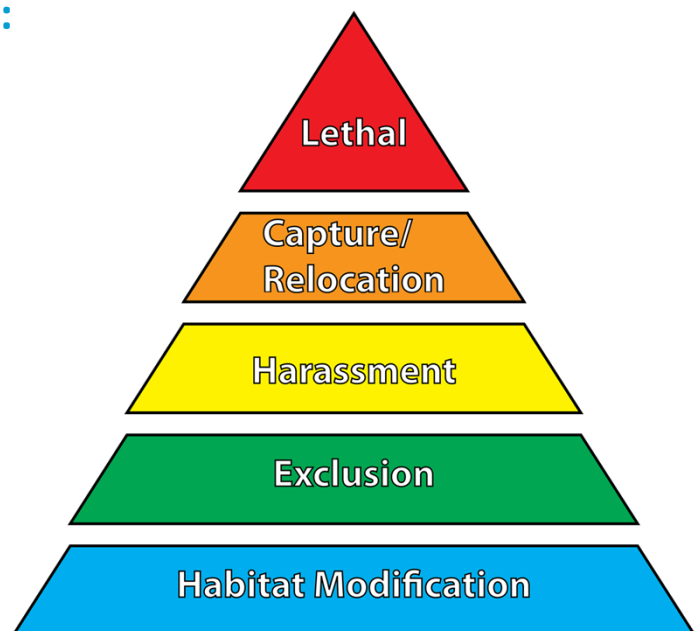


Who has what Authority?



What are my priorities for:

- Population Management
- Habitat Modification
- Land use changes

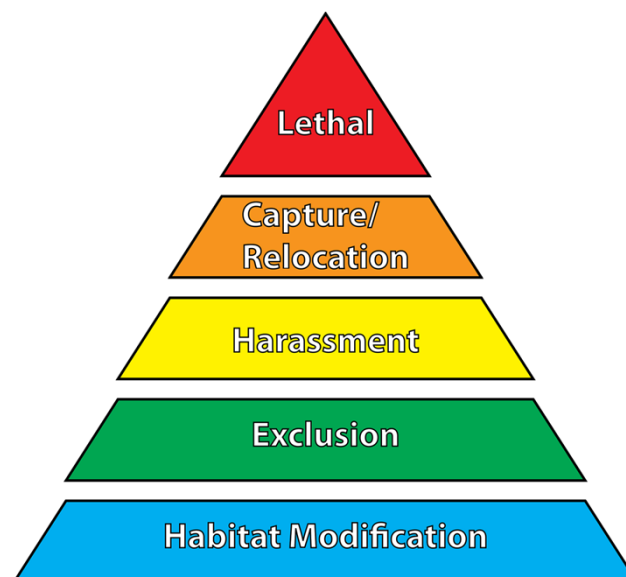


Do I Need Permits?

Yes/No

Capture/Relocation	Habitat Modification
Lethal	Exclusion
	Harassment

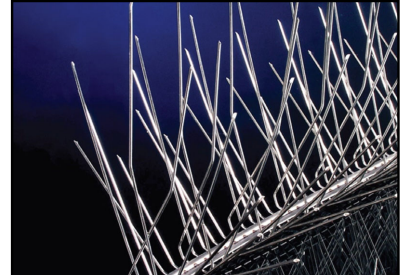
What Resources Do I need?



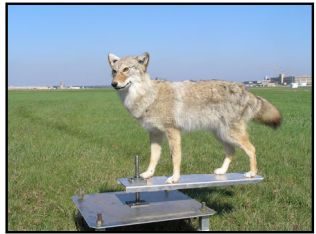
Habitat Modification



Exclusion



Harassment



Capture/Relocation



Lethal



Coming Soon



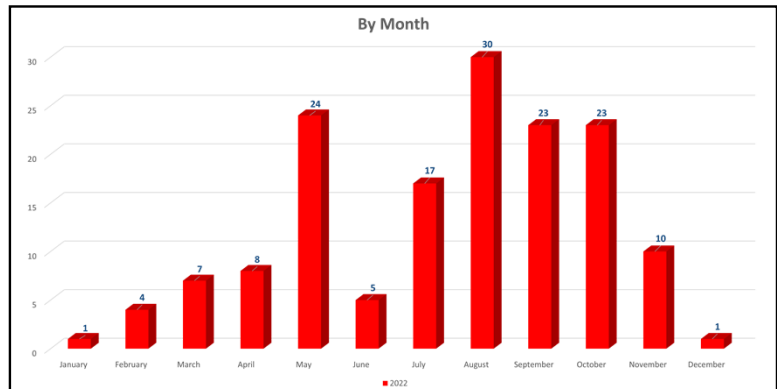
What Are My Procedures?



Is My Plan Effective?

WS CODE: 542 DIRECT CONTROL LOG DATA SHEET PAGE # 1 OF 1
 DATE: 01/20/01 SHEFT: D
 WEATHER: Cloudy

TIME	LOCATION	COUNT	SPECIES	ACTION	IK	BEHAVIOR	COVER TYPE	AMMUNITION	# OF ROUNDS	COMMENTS
07:16	L17	1	Moose	vehicle chase	Ø	Feeding	Woodland	—	—	Mid run walked into woods East of Runway 15
07:38	I18	2	American Goldeneye	waterfowl shoot	Ø	Leaving	Runway	shot shell	2	Flew East
07:56	I18	3	Mallard	waterfowl shoot	Ø	Leaving	SHORT GRASS	shot shell	3	Flew East
08:21	F17	1	Mallard	vehicle chase	Ø	Leaving	LOW GRASS	—	—	Adult Female
08:21	F17	1	Golden-wing Teal	shoot	Ø	Leaving	Grass	shot shell	1	Male - Flew South
08:56	D15	1	Red Tailed Hawk	synchro shoot	Ø	Flying	SHORT GRASS	cartridge shell	1	Flew NorthWest
08:21	F17	1	Mallard	waterfowl shoot	Ø	Leaving	Woodland	shot shell	2	Adult Female - DID NOT LEAVE AREA
10:00	K16	6	Baldpate Goldeneye	waterfowl shoot	Ø	Leaving	Runway	shot shell	2	Flew North
10:40	H20	4	Mallard	waterfowl shoot	Ø	Leaving	SHORT GRASS	shot shell	3	DID NOT LEAVE AREA landed in middle of lake. Spotted DID NOT LEAVE AREA
10:40	H20	1	American Shoveler	waterfowl shoot	Ø	Leaving	Woodland	shot shell	1	landed in middle of lake. Spotted DID NOT LEAVE AREA
10:42	H20	7	Lesser Scaup	waterfowl shoot	Ø	Leaving	Runway	shot shell	2	Swam to middle of lake. Spotted DID NOT LEAVE AREA
11:30	J18	1	Moose	synchro	Ø	Leaving	Runway	cartridge shell	1	WALKED DOWN FENCE, CALLED BACK SHOOT
15:30	J17	1	Moose	traps	Ø	Feeding	LOW GRASS	—	—	Shot dark red yellow #30 in right eye



Is My Plan Effective?



What Training Do I Need?

- Wildlife Hazards
- Wildlife hazard management strategies, tools and techniques
- Strike collection and reporting
- Firearms safety and proficiency
- Pyrotechnics
- Wildlife identification

MSP Wildlife Training



CENTER FOR
TRANSPORTATION STUDIES
UNIVERSITY OF MINNESOTA



Takeaways

- If you have Wildlife on your airport, you have a problem.
- If you have a problem, you need to own it.
- It's not rocket science, but it is science.
- If you don't have a plan, you need one.
- If you're not sure what you need to do, reach out for help.
- Keep it simple.
- **AWARENESS – Know what's happening at your airport.**

Thank You & Questions



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