

# Managing Birds in Agricultural Landscapes

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State University Extension



Picture Credit: James Thiel, USDA Wildlife Services



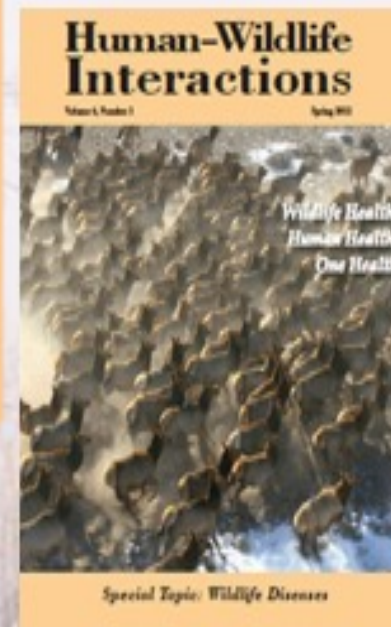


# Jack H. Berryman Institute

[www.berrymaninstitute.org](http://www.berrymaninstitute.org)



- Founded in 1993 – Utah State University
- Dedicated to improving human-wildlife relationships and resolving human-wildlife conflicts through teaching, research, and extension.
- Outreach and engagement public policy working groups and forums
- HWI – Research, Policy, and Management
- <http://digitalcommons.usu.edu/hwi/>
- Monographs
- Continuing education for the professional and stakeholders



# Damage by Birds in Agricultural Landscapes

Species	Damage
Gulls (Protected)	Building damage, Nuisance
Blackbirds (Protected) Starlings	Crops (corn, sunflower, rice), Nuisance
Pigeons, House Sparrows	Grain contamination, Building Damage
Crows, Ravens, Magpies (Limited Protection)	Predation (birds, livestock), Crops (corn, fruit), Nuisance
Turkeys (Protected)	Crops, nuisance
Raptors (Protected)	Predation (poultry, livestock)
Woodpeckers (Protected)	Damage to wooden structures, Nuisance
Ducks, Geese, Sandhill Cranes (Protected)	Crops, Nuisance





# Gulls



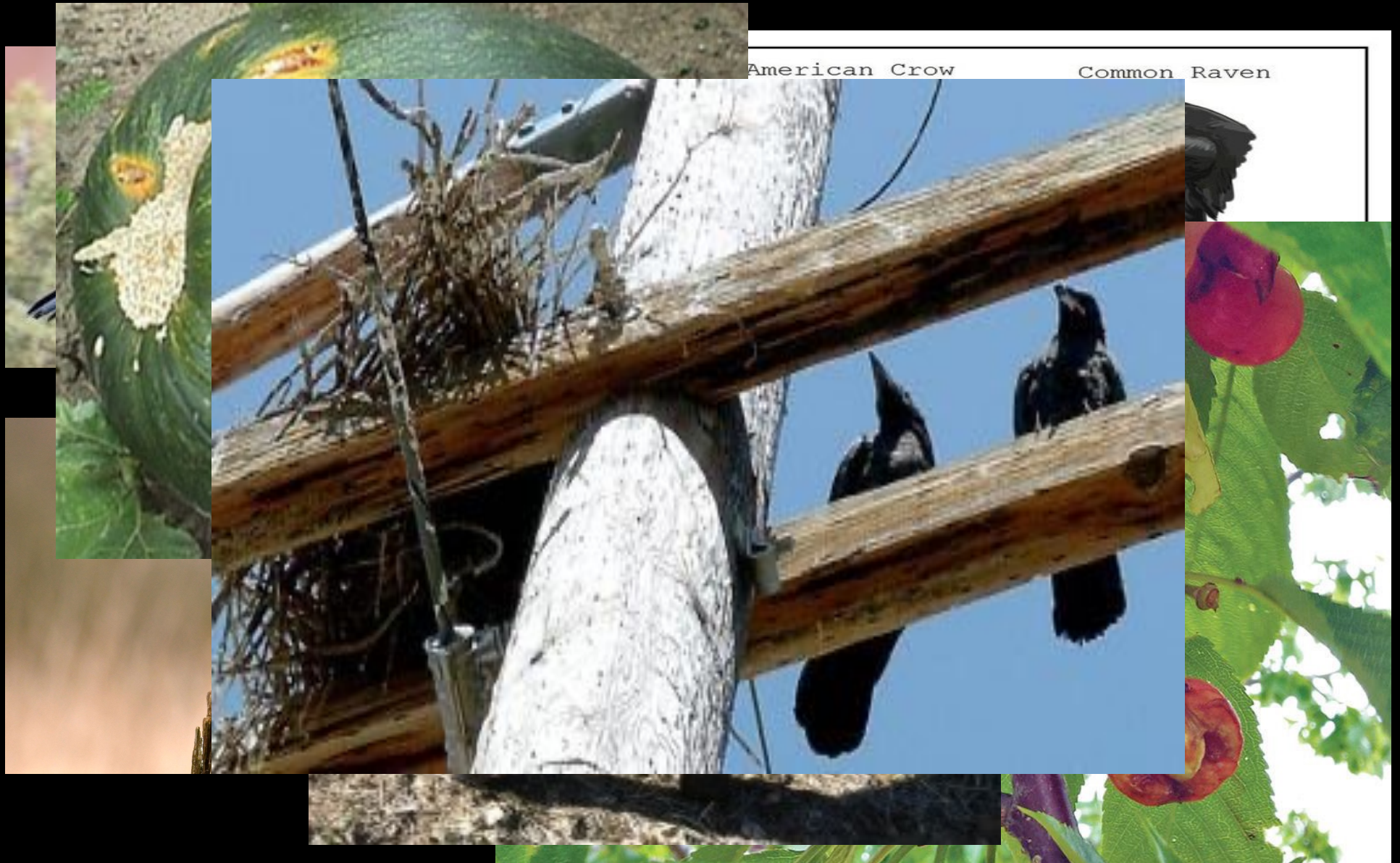
Photos courtesy Utah DWR







# Crows, Ravens, and Magpies



American Crow

Common Raven



# Turkeys



Photos courtesy Utah DWR



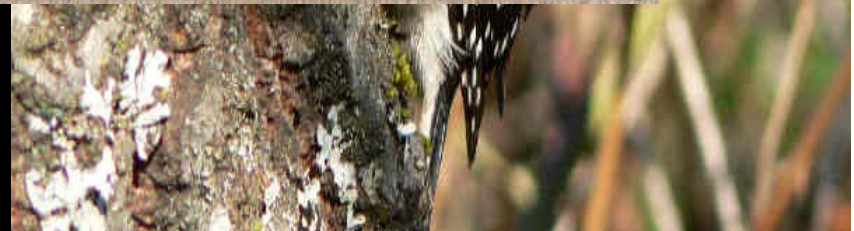
Photos courtesy Utah DWR

# Raptors – Birds of Prey



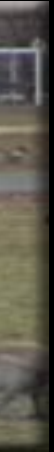
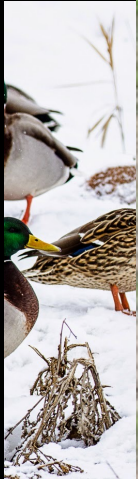


# Woodpeckers





# Ducks, geese, and cranes



Photos courtesy Utah DWR



# Birds are Legally Protected

- **Migratory Bird Treaty Act of 1918** makes it illegal to intentionally capture, kill, or disrupt certain birds or their nests and eggs. Over a thousand species of birds are covered in this act.
- **The Endangered Species Act** was passed in 1973 to protect birds that are declining in numbers and are at risk for eventual extinction





# Birds are Legally Protected

- Federal regulations require that a depredation permit be obtained before most migratory birds can be captured, killed, possessed, or transported to control depredation

FWS Form 3-200-13 (Rev. 01/2020)  
U.S. Department of the Interior

OMB Control No. 1018-0022  
Expires 08/31/2023

**FEDERAL FISH AND WILDLIFE PERMIT APPLICATION FORM**  
*Migratory Bird Depredation*  
(Migratory Bird Treaty Act, 50 CFR 21.41)  
U.S. Fish and Wildlife Service  
Division of Migratory Bird Management

**TYPE OF REQUEST**

☐ New Application  
☐ Renewal  
☐ Amendment

**BEFORE FILLING OUT THIS FORM**, please access the [Return Addresses](#) (to obtain the email/postal mail addresses where this form can be returned), and read the [Frequently Asked Questions](#) and [Instructions](#). Please retain the "NOTICES" page for your records.

If requesting a renewal or amendment, provide Permit # \_\_\_\_\_

Complete Sections A or B, and C, D, and E of this application. U.S. address may be required in Section C, see instructions for details. See Instruction page(s) for information on how to make your application complete and help avoid unnecessary delays.

**A. Complete if applying as an individual**

1.a. Last name	1.b. First name	1.c. Middle name or initial	1.d. Suffix
2. Date of birth (mm/dd/yyyy)	3.a. Telephone number	3.b. Alternate telephone number	3.d. E-mail address

**B. Complete if applying on behalf of a business, corporation, public agency, Tribe, or institution**

1.a. Name of business, agency, Tribe, or institution	1.b. Doing business as (dba)		
2. Tax identification no.	3. Description of business, agency, or institution		
4.a. Principal officer Last name	4.b. Principal officer First name	4.c. Principal officer Middle name/ initial	4.d. Suffix
5. Principal officer title	6. Primary contact name		
7.a. Business telephone number	7.b. Alternate telephone number	7.c. Business fax number	7.d. Business e-mail address

**C. All applicants complete address information**

1.a. Physical address (Street address; Apartment #, Suite #, or Room #; no P.O. Boxes)					
1.b. City	1.c. State	1.d. Zip code/Postal code	1.e. County/Province	1.f. Country	
2.a. Mailing Address (include if different than physical address; include name of contact person if applicable)					
2.b. City	2.c. State	2.d. Zip code/Postal code	2.e. County/Province	2.f. Country	

**D. All applicants MUST complete**



# What are the options when bird damage occurs?





# What the professionals recommend:

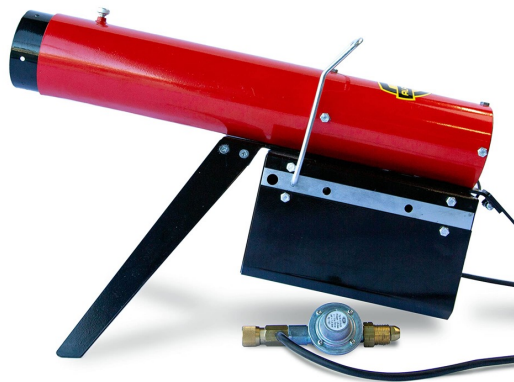
- Plastic Bird Spikes to keep from roosting
- Wind powered Bird Spiders
- Sonic Birds





# What the professionals **DON'T** recommend:

- Ultrasonic devices
- Propane Cannons
- Lethal Control (poisons, guns, traps)





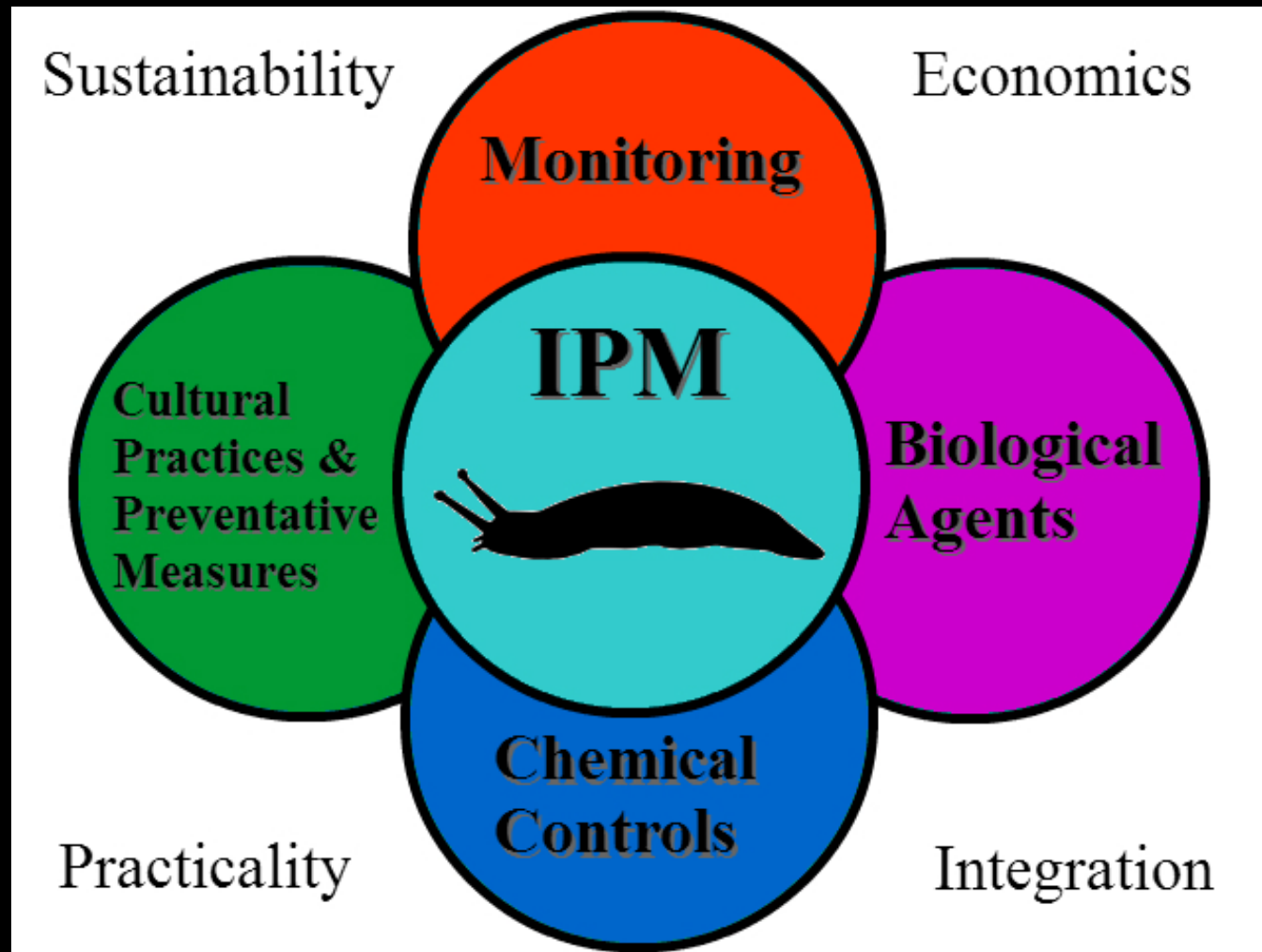
# Other legal bird control methods

- Bird Netting
- Avian Block
- Avian Fog
- Visual Barriers





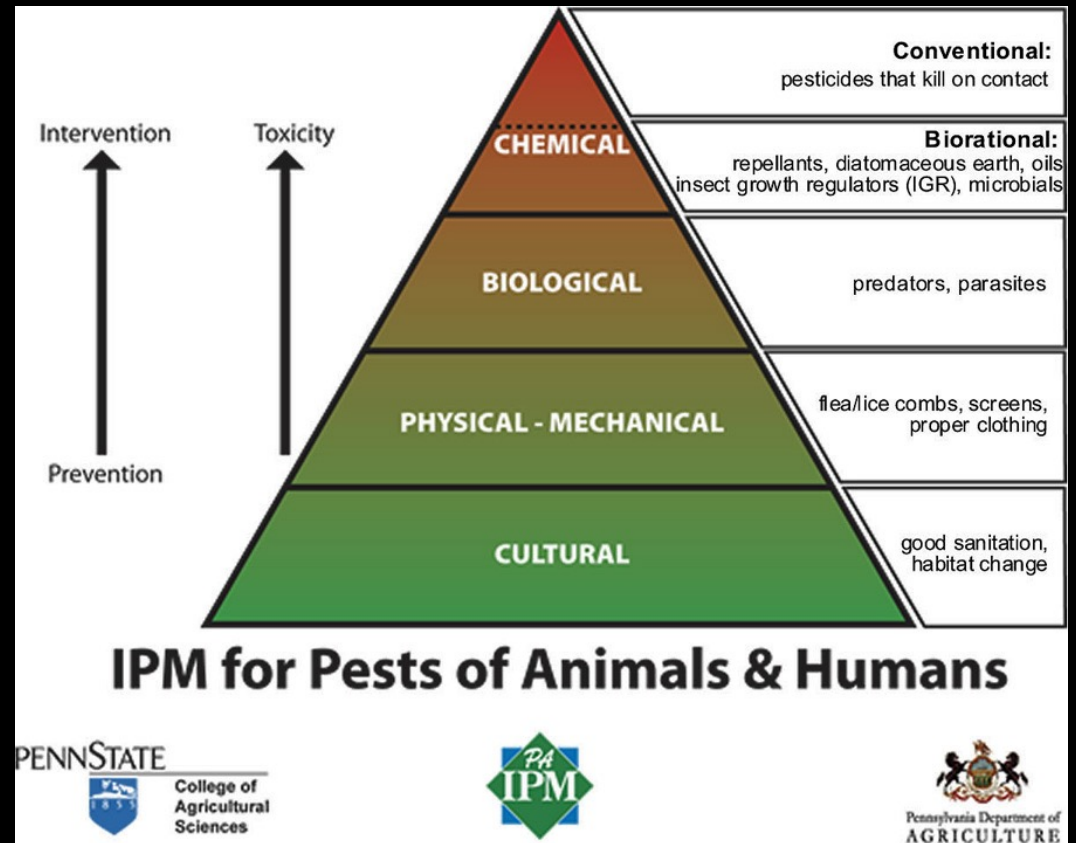
# Integrated Pest Management (IPM)





# Basic Components of IPM

- Responsible pesticide use
- Biological controls
- Physical/Mechanical controls
- Preventative cultural practices
- Monitoring





# Take aways

- Bird Identification is key
- Bird Location and Activity will focus control efforts
- An integrated approach with monitoring will alleviate and prevent the issue





# Resources

## Federal Fish and Wildlife Permit

### Depredation Permit

Chad Heuser USDA Wildlife Services: [chad.Heuser@usda.gov](mailto:chad.Heuser@usda.gov)

FWS Form 3-200-13 (Rev. 01/2020)  
U.S. Department of the Interior

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# Resources

[https://www.aphis.usda.gov/wildlife\\_damage/nwrc/downloads/wsbirddamage.pdf](https://www.aphis.usda.gov/wildlife_damage/nwrc/downloads/wsbirddamage.pdf)



United States  
Department  
of Agriculture

Animal and  
Plant Health  
Inspection  
Service

Program Aid  
No. 1750

## Wildlife Services: Managing Bird Damage to America's Resources





# Resources

<https://www.birdbgone.com/>



<https://reedjoseph.com/>



<https://extension.usu.edu/pests/schoolipm/ipm-plan/control-procedures>

**UtahState**University

Utah Pests  
Extension