

Bird Management

Nebraska Extension





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Birds



From the wise old owl to Polly want a cracker, birds are a part of our culture and everyday lives. They share our space and even represent our country!

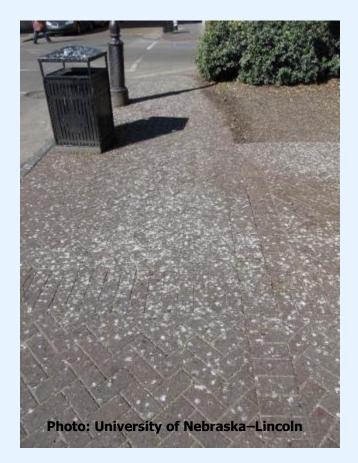






Birds as Pests

Sometimes birds can become pests by being where they are not wanted or by causing damage, noise, or messes that impact areas of human habitation.







Federally Unprotected Birds





Pigeon

Starling

- These species non-native
- Introduced to the U.S.
- Not protected by North American Migratory Treaty Act



May be protected by local communities



House Sparrow

Bottom Line

- 1. Constant supply
- 2. Don't leave
- 3. Adapted to urbanization



Pigeons (Rock Doves)



Medium sized, about 12 inches

Blue to gray in color but variable; may have two black wing bars and white rump





Pigeon Facts

Photo: University of Nebraska–Lincoln



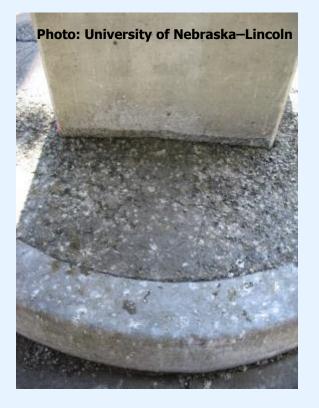
Don't usually fly far, although do have separate feeding and roosting sites that can be across town from each other

- Nest structures protected from weather, near people
- Gregarious like to be in each other's company, feed, roost, loaf together
- Broods multiple times/year
- Foods seeds, grains





Pigeon Damage





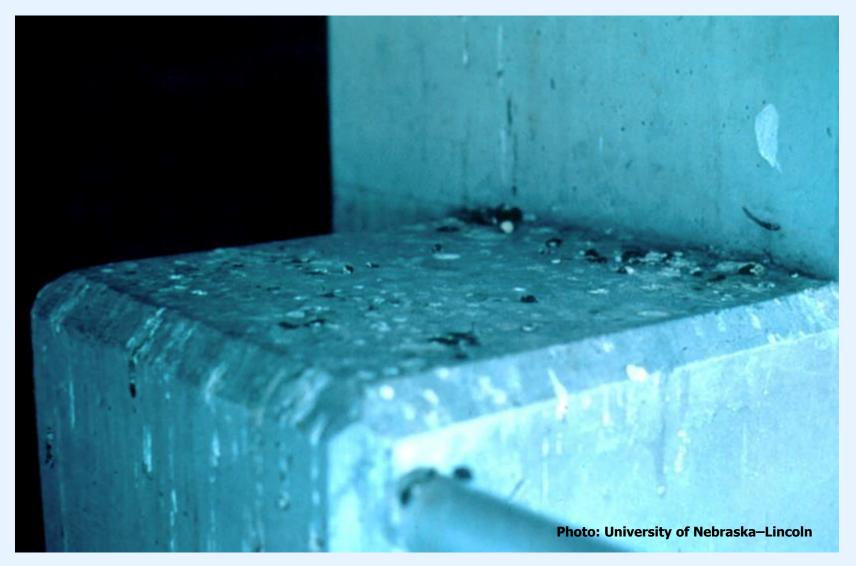
Droppings are unsightly and may contain disease organisms

Nest building and perching in and around structures; congregate in large flocks, making many nesting and roosting birds in one area

* Feeding

Many times feed one place and roost at another, so can have problems in more than one area





Droppings may be unsightly, cause walkway hazards, and harbor disease organisms. Long-term exposure to droppings can lead to an allergy called Breeder's Lung.





European Starlings

- Adults black, light speckled, robin-sized; juveniles pale brown to gray
- Bill is yellow Jan-July, dark other times
- Short tail, wings triangular shaped in flight
- Eyes sit far forward easy to see grubs







Starling Facts



Wide ranging; some migrate
A perching bird
Nest in cavities
Foods - grubs, fruits, seeds, etc.





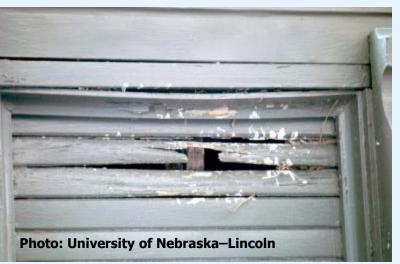


Photo: University of Nebraska–Lincoln





Starlings nest in cavities, such as trees, holes in buildings, bird boxes, etc.



Starling Damage

- Droppings cause messes and may contain disease organisms
- Roosting flocks in buildings, trees, etc.
- Nest building and perching in and around structures
- Feeding livestock and pet foods
- Many times feed one place and roost at another, so can have problems in more than one area
- Often take over nest cavities of native species







Droppings from a large roost in a building or in trees can cause walking hazards, be unsightly, and present the potential for disease exposure.





House Sparrows (Weaver Finches)

- Not "true" sparrows
- Small, brown, and chunky
- About 5-6 inches long
- Male black bib, white cheeks, chestnut upper wing covers
- Female and young gray breast, streaked back, buffy eye stripe (see picture)







House Sparrow Facts





- Don't fly far
- Nest in and around structures in human populated areas
- Obligate Commensal -"obligated" to be near people
- Broods 3/yr
- * Foods mostly seeds,

grains, and insects

House Sparrow Damage

- Droppings cause messes and may contain disease organisms
- Nest building and perching in and around structures
 - Nests can plug gutters; nests around electrical wiring are potential fire hazard
- Often take over nest
 - cavities of native species









House sparrow nesting site in a sign.





Other Common Birds



Canada geese Blackbirds American crows





Canada Geese



 Protected under federal Migratory Bird Treaty Act

- Have increasingly become permanent residents in urban areas near lakes or ponds surrounded by open grassy areas
- Grazers eat grass, lake vegetation, grains, and other food fed to them by people
- Molt in the summer, are flightless for a month





Canada Geese Damage





- Large numbers
- Feeding can damage turf
- Droppings and feathers on grounds, lawns, parks can be excessive and interfere with human activities
 - Produce about a pound per day of droppings, can be substantial if large enough flock
 - Can over-fertilize lawns
 - In water, can lead to algae growth, fish kills, and water contamination health concerns



Blackbirds





- Includes grackles, cowbirds, redwings
- Wide ranging, migratory
- Perching birds
- Native
- Protected but may be taken under limited conditions
- * Nesting
 - > Grackles (trees)
 - Cowbirds (lay eggs in other birds' nests)
 - Redwing (grass and hay fields, wetlands)



Blackbird Damage

Photo: University of Nebraska–Lincoln



Red-winged blackbirds in a cornfield



Can damage crops
Roosting flocks in trees
Odor, noise, filth at roosts

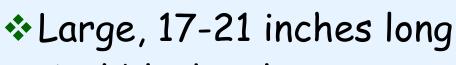
Droppings cause messes and may contain disease organisms

Consume livestock feed



American Crows





- Coal black color
- * Intelligent
- Widely distributed across North America
- Omnivorous (eat almost anything!)
- Found in wooded areas, farmlands, orchards, parks, and suburban areas





Crow Damage





- At times consume eggs or young of other birds
- Roosting flocks in trees
- Odor, noise, filth at roosts
- Droppings cause messes and may contain disease organisms
- * Feeding





Bird Control Methods

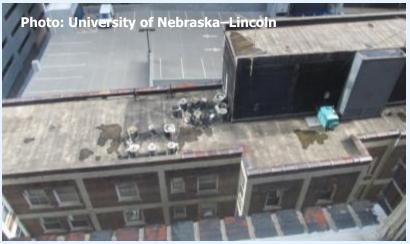
- Habitat Modification-remove conditions favorable to the species
- *Exclusion—prevent their access
- Repellents—irritating chemicals
- Frightening—non-chemical fear inducers
- Toxicants—poisons
- Shooting—bullets and pellets



Trapping—capture methods



Habitat Modification



Do not allow water to pool on roofs.

Reduce availability of food and water

> Reduce availability of grain by cleaning up spillage from grain storage and shipping areas

Reduce availability of water. Starlings and pigeons, in particular, are attracted to water





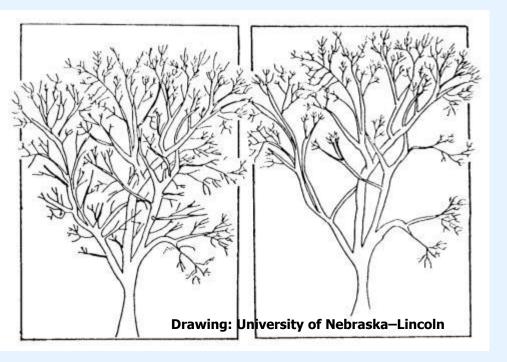


Clean up spilled grain and other foods to reduce availability to birds.





Habitat Modification



Discourage birds from roosting in trees by trimming branches (up to 1/3) to open up the canopy





Urban Bird Management

Habitat Modification
 Educate the public
 Enact ordinances
 Stop active feeding









Urban Bird Management

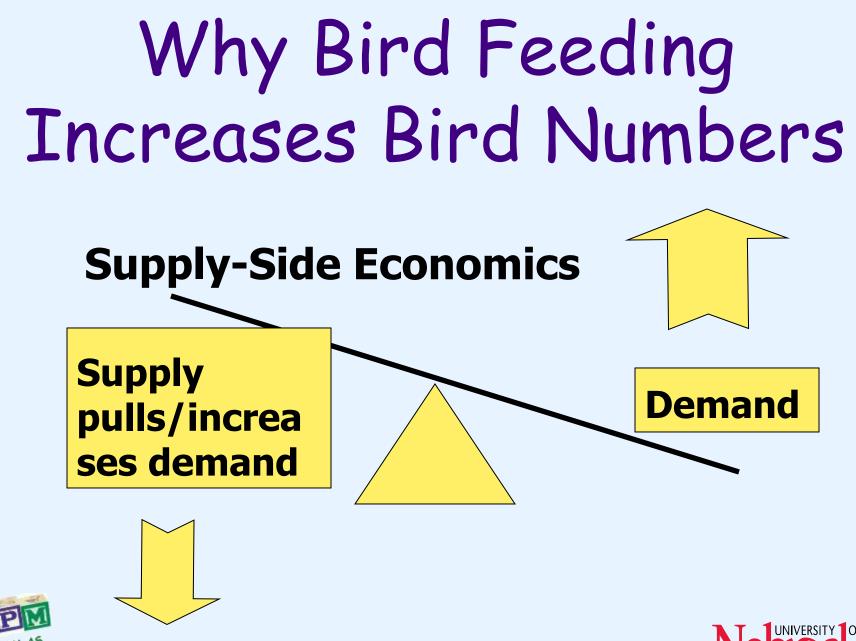
Habitat Modification
 Stop passive feeding
 Trash cans should be covered
 Restaurants should clean

up after customers













Understanding Bird Pressure

Pressure refers to how attached birds are to a particular location

High Pressure Hard to Move



Low Pressure Easy to Move



Light Pressure

- Birds use area to sunbathe, digest, and relax
- No permanent connection to the area
- Opportunistic source of food and water







Medium Pressure

- Defined roosting areas present
- Permanent or regular source of food, water, and cover available
- No nests







Heavy Pressure

 Nesting site
 Regular roosting site
 Food and water readily available
 Hard to move nesting birds

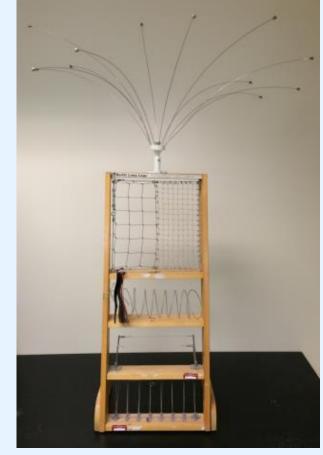






Bird Exclusion Products

Photo: University of Nebraska–Lincoln



*Medium Pressure Daddy long legs ➢ Birdcoil ➢ Birdwire Heavy Pressure >Netting: different size mesh for different birds > Bird spikes





Bird Exclusion

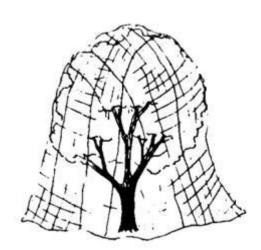






Bird Exclusion Products





Drawing: University of Nebraska–Lincoln



Use plastic strips for doors, and netting on trees or buildings to prevent access by birds



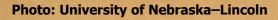


Non-electric Ledge Products

*Needle or razorlike wires are used to prevent birds from perching. Consider failure issues



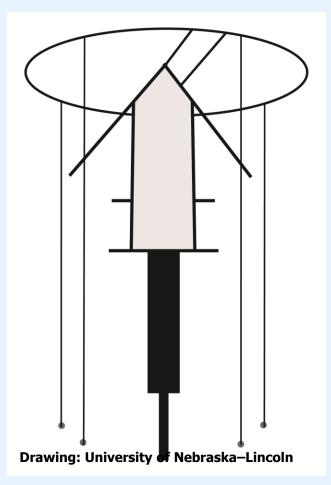








Use of Lines or Wires



 Widely spaced lines interfere behaviorally with certain birds, possibly related to predation risk

House sparrows, particularly adults, repelled from feeder sites by monofilament lines placed 1-2 ft. apart

Does not repel from nesting sites





Electric Ledge Products



Bird's feet come in contact with both wires to connect the circuit.

Electric shock systems placed on ledges repel birds through use of harmless electrical shock.

*For heavy pressure





Frightening Devices

- Often only a temporary solution
- Visual
 Balloons
 Effigies



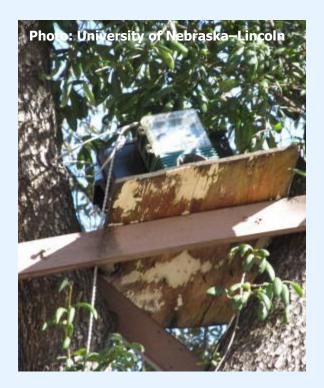


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Frightening Devices

* Audio > Distress >Propane cannons *Audio-Visual Fireworks >Pyrotechnics







Best Use of Frightening Devices

Use in combination with other techniques Best when used **BEFORE** birds habituate to a site *Lethal control increases frightening efficacy FASY A



Too late to haze



Frightening Strategies







Nebraska-Lincoln

Begin early before birds get settled in an area, and be persistent! *Keep them

novel/scary and use as many different products as possible



Ultrasonics

Ultrasonic devices have NOT proven effective in management of nuisance birds







Repellents-Olfactory



Photo: University of Nebraska–Lincoln



- Methyl anthranilate
- Made from grapes (left)
- Relatively expensive
- Apply repellent by fogging (lower-left) or by haze-Ultra-low volume



Considerations with MA

- Sensitize birds with fog (10-30 microns), then change to haze
- *Outdoors
 - >225 days of prevailing wind needed
 - Small birds will roost on periphery and wait for wind to change
- *Indoors
 - Haze (2 to 10 microns)



- Reported to work well (long-term)
- >Liability of long-term exposure?



Repellents-Tactile





Polybutene repellents soft, sticky non-toxic substances placed on ledges to discourage birds from roosting

Place on wide masking tape strips to facilitate removal

Replace periodically since dust and dirt collect on sticky surface



Toxicants

Chemical agents such as Avitrol® can be used to control birds. However, non-lethal controls should be employed first

Non-lethal methods such as exclusion or reducing attractiveness are needed for long-term control





Read and Follow Label Directions

When using Avitrol, Starlicide Complete, or any other chemical agent or toxicant, always read the label!

- The right way for both effectiveness and safety
- Required by law and backed by penalties
- >"Court" of public opinion and your
 - reputation





Avitrol®

- A Restricted Use Pesticide (RUP)
- Read and follow label directions!
- Pre-bait and use bait containers
 - > Monitor to ensure no non-targets are present
- Consider use prior to major flock build up (e.g., fall)
- Birds react and die at site; be prepared for public response or questions
- Avitrol.com training materials on how to use product, assistance





Avitrol®

Restricted-use Pesticide

- Causes distress amongst affected birds to frighten flock
- Step 1. Evaluate site (warn neighbors?)
- Step 2. Pre-feed
- Step 3. Choose formulation
- Step 4. Treat flock

Step 5. Pick up dead birds





Avitrol®

- Flock alarming do not need to kill entire flock of birds, just a portion to frighten away flock from the area
- Bait with non-treated corn, seeds, etc. before instigating Avitrol[®] program
- Mix ratio of Avitrol® to untreated bait, depending on the percentage of the flock you wish to eliminate

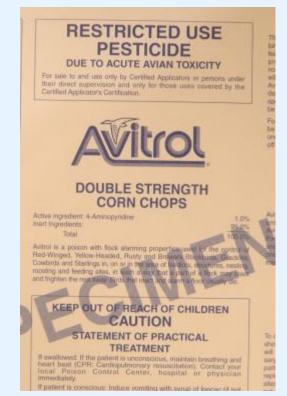


Photo: University of Nebraska–Lincoln





Photo: University of Nebraska–Lincoln

Used for starlings and blackbirds in rural areas

Starlicide Complete™







Starlicide Complete™

Used as a toxicant, as opposed to Avitrol[®], which is used for flock alarming (though Avitrol[®] does kill some birds)

 Consider Starlicide Complete when:
 Most of the problem starlings/blackbirds come to the control area at the same time (e.g., winter)
 Monitoring shows no non-targets

Potential public response in planning (birds dying ELSEWHERE)





Starlicide Complete™

- A Restricted Use Pesticide (RUP)
- Read and follow label directions!
- Pre-bait and use bait containers
- Winter cold, snow, starlings concentrate in areas
- Birds die quietly, often at roost away from site. Notify wildlife officials so they can respond to questions





Shooting





Useful for small pigeon and house sparrow flocks where re-invasion is limited

Use pellet guns or lowpowered rifle ammo such as .22 caliber shot shells or .22 caliber rimfire CB cartridges

Not as effective on larger populations, mobile starlings or blackbirds, but can be an effective temporary frightening tactic

Shooting-Rifle/Pellet Gun



Air rifle .177 cal Follow laws!!! Survey area >How much traffic? Shooting lanes Back stop? *1" pattern @ 50ft Shoot 3-5 AM Have a spotter





Trapping





- Traps available for starlings, sparrows, and pigeons
- Inefficient for hundreds of starlings or blackbirds
- Check daily, release any nontarget captures
- Trapped target pest birds can be humanely killed by carbon dioxide or cervical dislocation (quickly breaking neck)



Sparrow Trapping Tips

- Secure & cover traps to prevent predation & exposure
- Check daily
- Include food & water
- Use decoys
- Additional trapping tips can be found at <u>http://www.sialis.org/hosp.htm</u>
- * Repeating Nest Trap
- http://www.chuckspurplemartinpage. com (under Starling and Sparrow Control)







Decoy Trap for Blackbirds



Trapping can be used to capture and control a small population of problem birds. Not as effective if re-invasion is likely or if there is a larger population of mobile birds.





WCS® Net Blaster™

Uses compressed air (not explosives) to project net *\$5,000 (net and air compressor extra) *Requires prebaiting







Biological Control

*Falconry

Trained falcons are used to haze and sometimes kill pigeons



Addling Eggs

Puncture, shake, or oil (Corn) rendering them unproductive



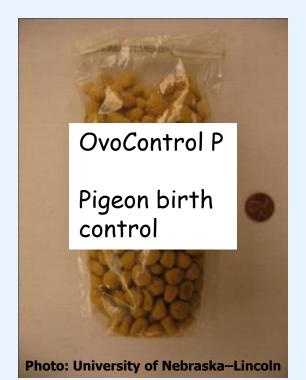
Limited effectiveness and/or time consuming





OvoControl

- Active Ingredient--Nicarbazin
- Developed in cooperation with USDA-APHIS-NWRC
- Interferes with egg hatchability
- * No secondary poisoning
- * Reversible
- Relatively safe for non-targets
- Can achieve 50% flock
 reduction in first year



OvoControl P \$6/lb/day/80 birds Dispenser available





Resources/Information

- Internet Center for Wildlife Damage Management
 - <u>http://icwdm.org</u>
- Prevention and Control of Wildlife Damage
 - <u>http://icwdm.org/handbook/index.aspx</u>





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