

Identifying Birds on the Farm

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About the Presenter

- BS in Biology from Siena Heights University
- MS Fisheries and Wildlife from The Ohio State University
- PhD candidate at Washington State University



Overview

- Mostly bird identification
 - 43 most common species
- Some management tips throughout
- 10 min Q&A at end



Tips for Identifying Birds

- Range and time of year
- "Four Keys to ID" from Cornell Lab of Ornithology
 - Size and shape
 - Beak, wing, tail shape
 - Color pattern
 - Color, streaking, spotting
 - Behavior
 - Flight pattern, vertical strata, tail bobs, gregarious or solitary
 - Habitat
- Song and calls



Overview on Managing Birds

- Remember: don't ever harm native birds or their nests without a pest permit
 - Invasive species can be controlled with lethal means
- Attract by providing food, a safe nesting space, and suitable habitat



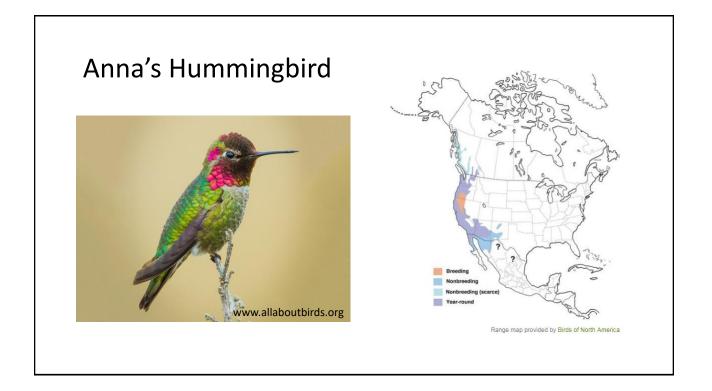
Overview on Managing Birds

- Most deterrence mechanisms aren't well studied but common ones include
 - Netting off trees or structures
 - Noise makers or laser beams
 - Mylar/reflective tape
 - Habitat removal near crops
 - Gas guns/band-bangers
 - Use predator decoys or promote raptors
 - Lethal control for invasives
 - Use more than one!



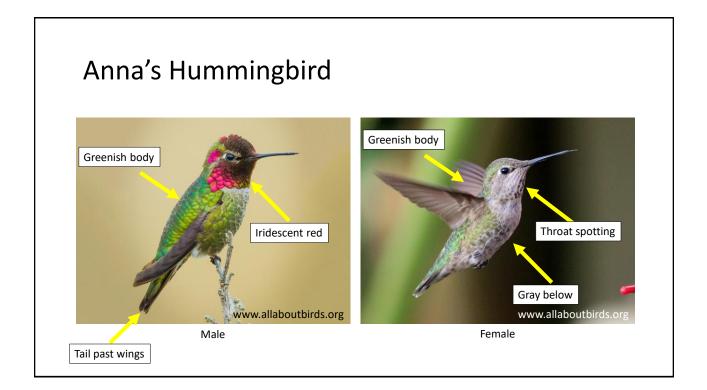
Hummingbirds





Anna's Hummingbird



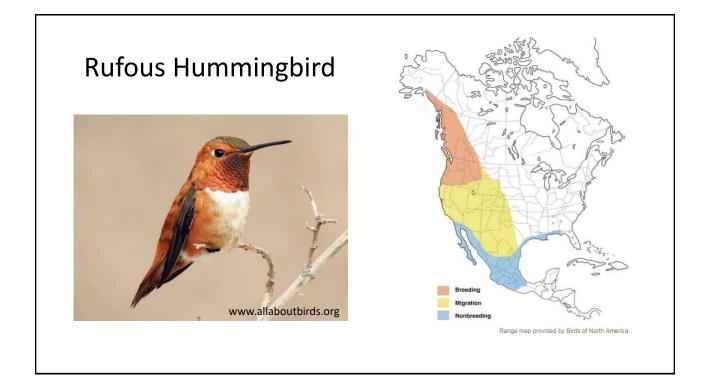


Anna's Hummingbird

- Metallic, scratchy song
 - zrrr jika jika jika jika jika
 - Scrrrr zveeee, street street

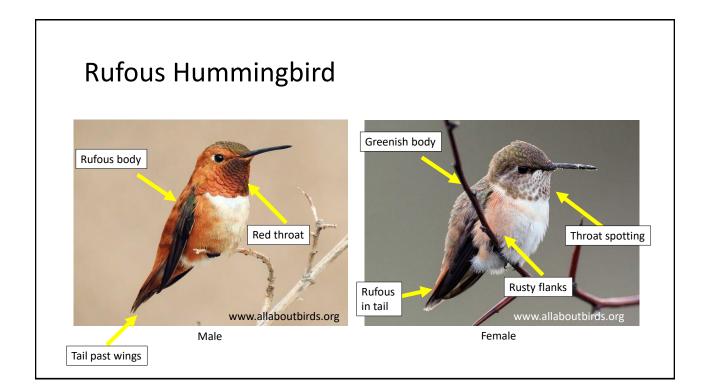


Sound file: Charles A. Sutherland/Macaulay Library at the Cornell Lab of Ornithology (ML6122)



Rufous Hummingbird



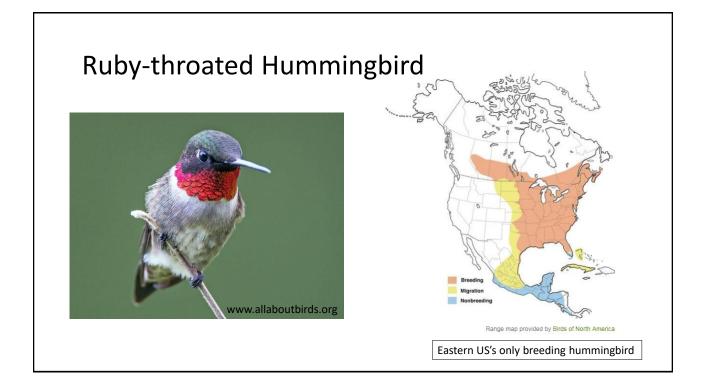


Rufous Hummingbird

- Three syllable phrases in call
 - Tzzew tzupity tzupity tzup
 - High, buzzy trill of wings



Sound file: Geoffrey A. Keller/Macaulay Library at the Cornell Lab of Ornithology (ML50107)



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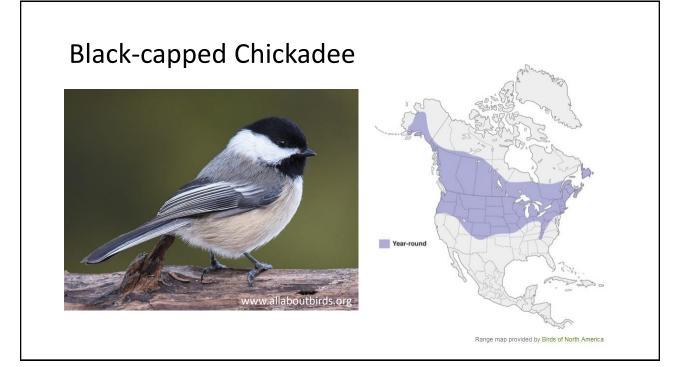
Attracting hummingbirds

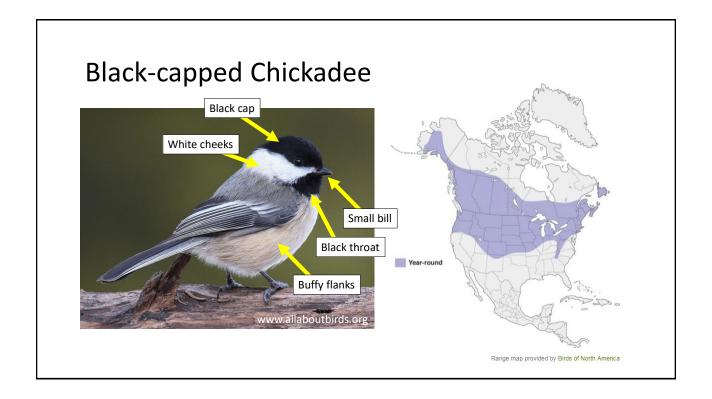
- Estimated to pollinate 3-5% of crops globally
- Plant flowers interspersed in crop fields
- Provide feeders
 - ¼ cup table sugar to 1 cup water

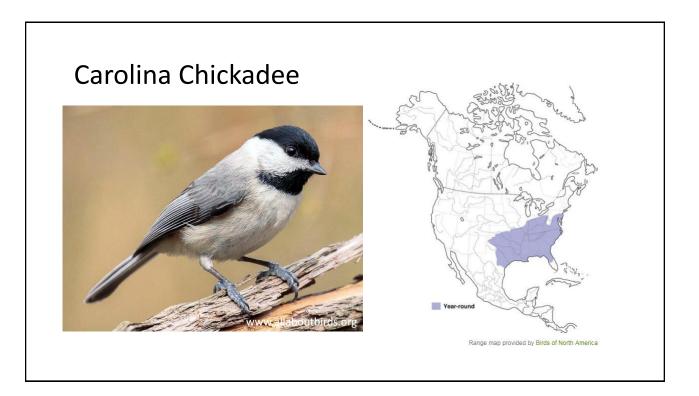


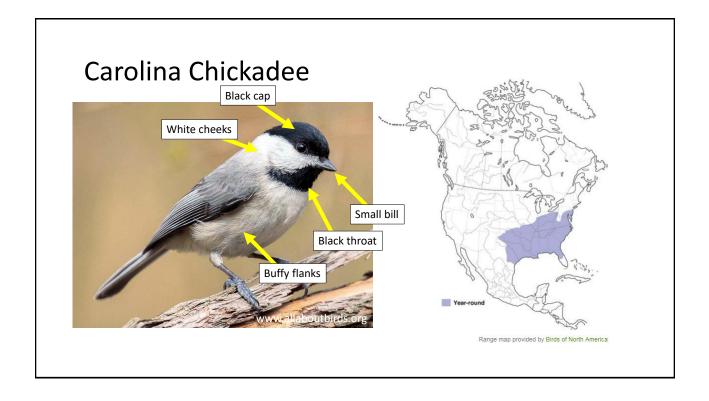
aboutbirds.org

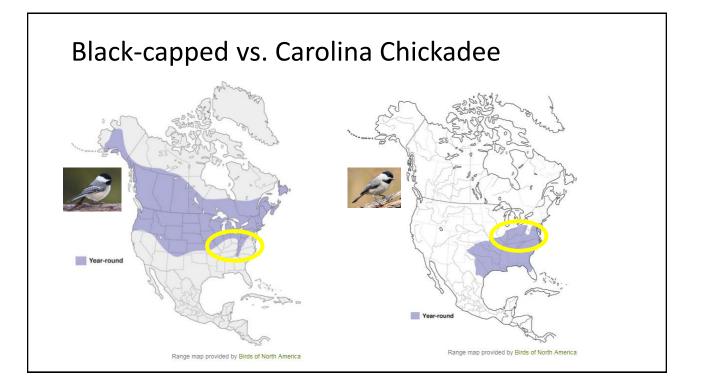
Chickadees and Warblers











Black-capped vs. Carolina Chickadee

- Black-capped Chickadee
 - Song pure 2 or 3 note whistled fee-bee
 - Call chickadee-dee-dee
 - Gargled alarm call
- Carolina Chickadee
 - Song four-note whistle fee-bee-fee-bee
 - Notes 1 and 3 higher
 - Call chickadee-dee-dee faster than Black-capped
 - Gargled alarm call



Sound file: Jay W. McGowan/Macaulay Library at the Cornell Lab of Ornithology (ML202239)

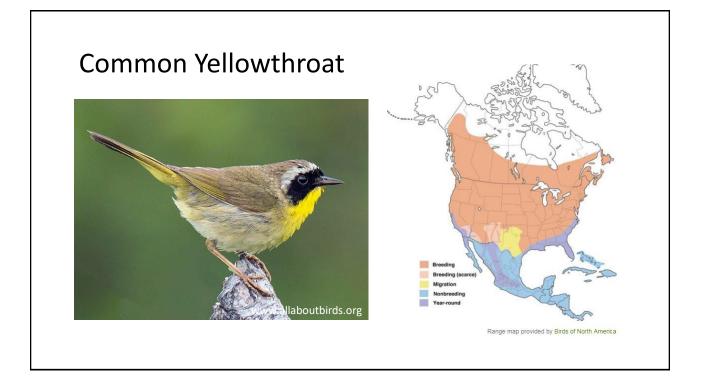


Sound file: Wilbur L. Hershberger/Macaulay Library at the Cornell Lab of Ornithology (ML94222)

Chickadees

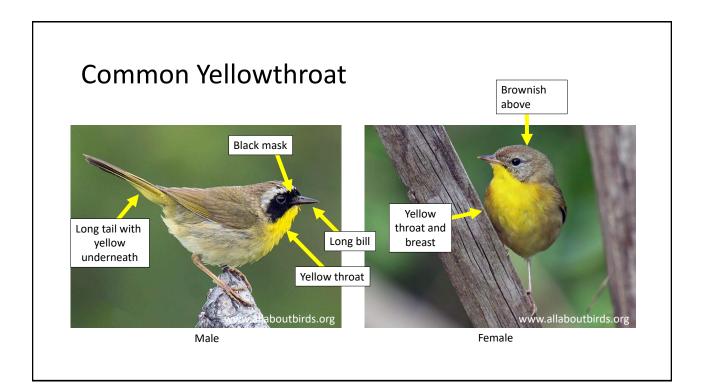
- Cavity nesters
 - Leave snags or provide nest boxes
- Arboreal plant crops near trees
- Insectivores
 - Can help control caterpillars
 - Will eat fruits when available

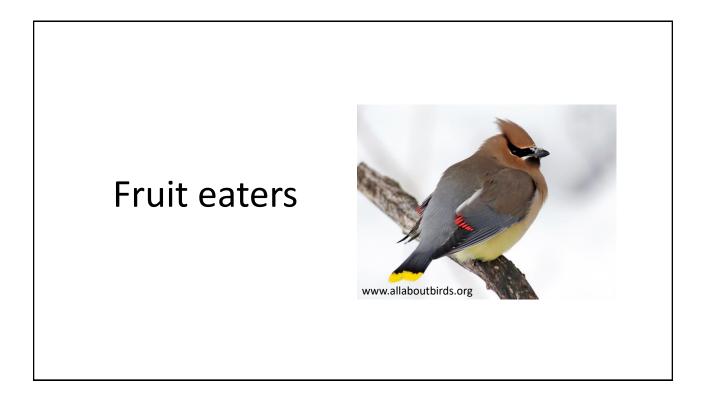


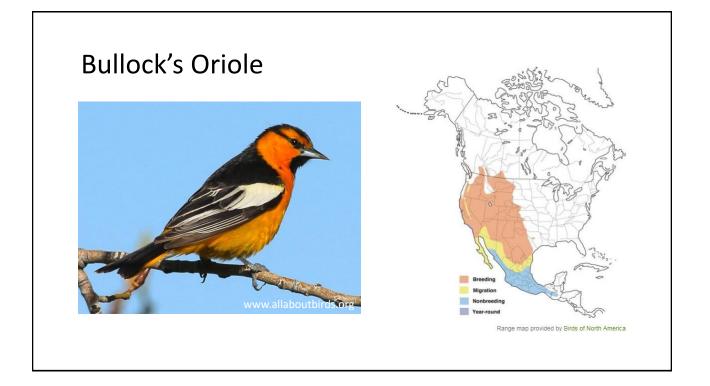


Common Yellowthroat









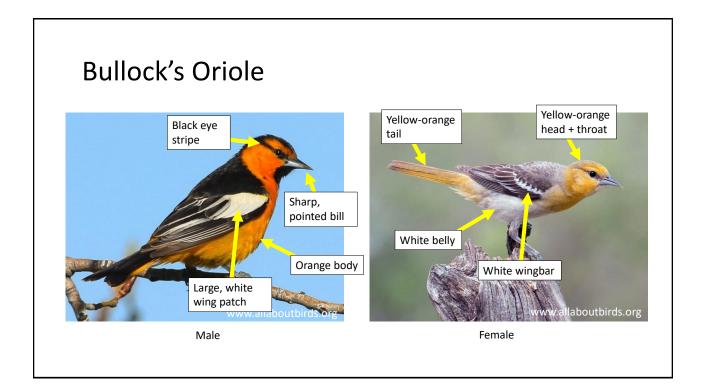
Bullock's Oriole

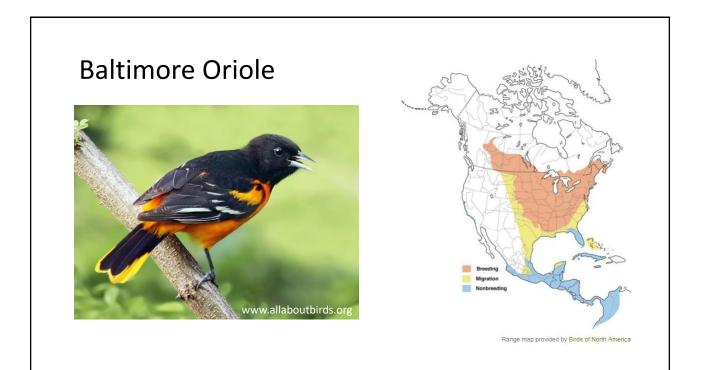


Male



Female





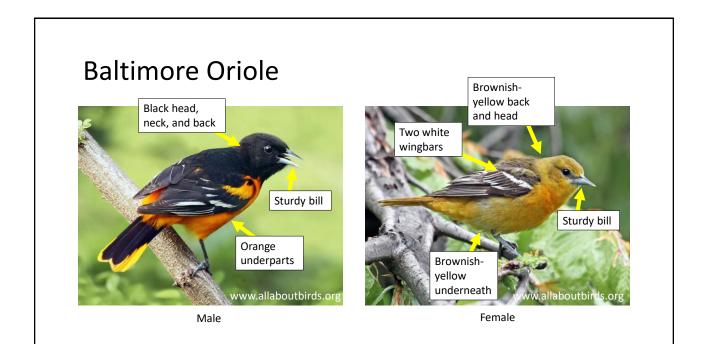
Baltimore Oriole



Male



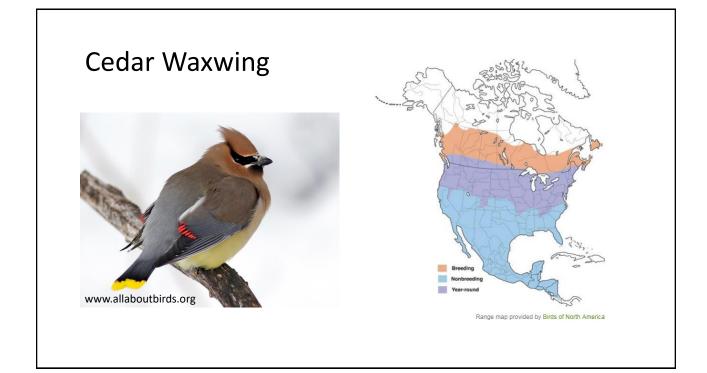
Female

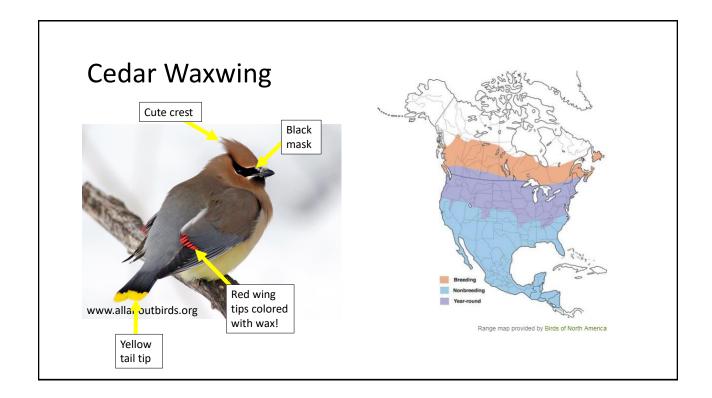


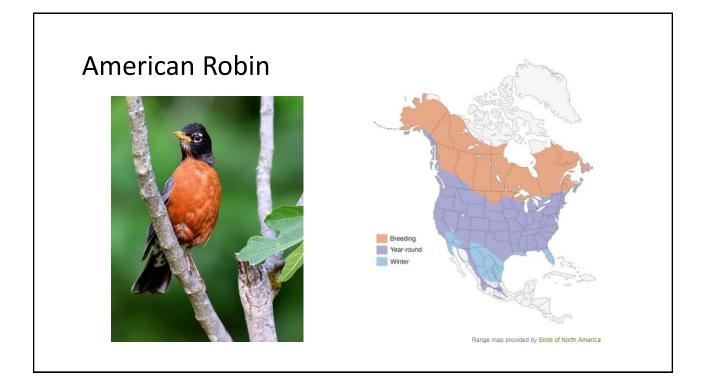
Orioles

- Pendulum nests
- Eat fruits, nectar, and insects
 - Use "gaping" method to eat fruit, causing holes
 - Place out orange slices, half water/half grape jelly mixture in shallow dish, or an oriole nectar feeder







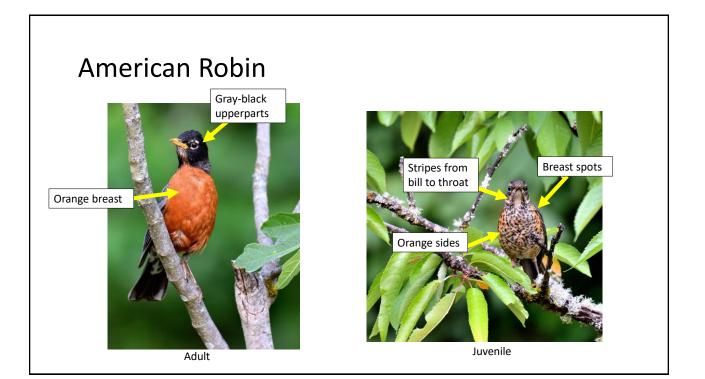


American Robin





Juvenile

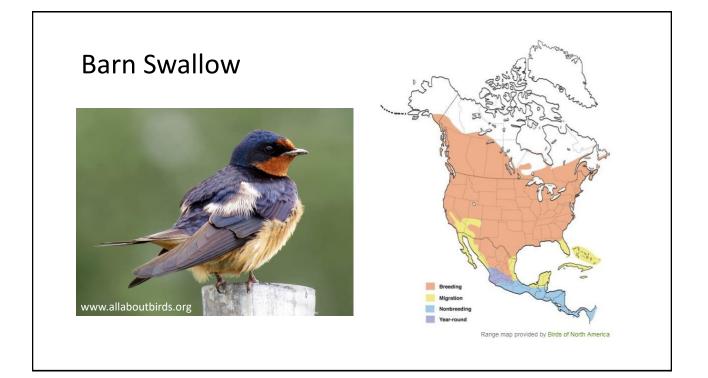




Swallows

Mud nest swallows



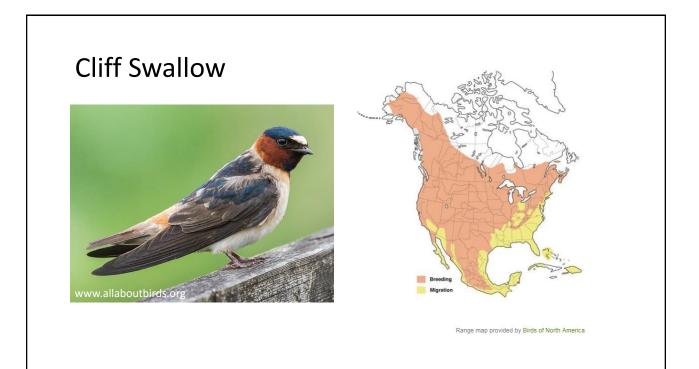


Barn Swallow





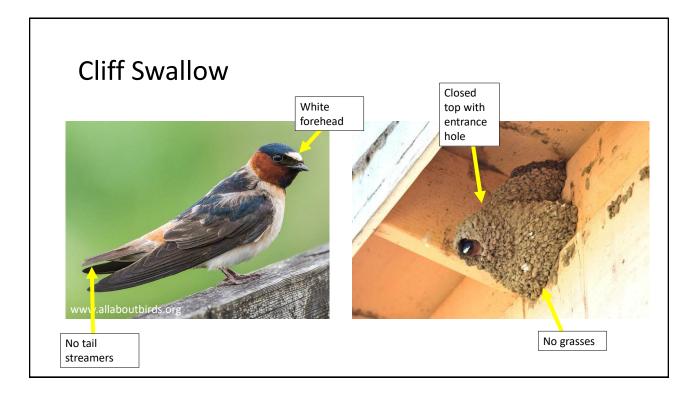
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Cliff Swallow







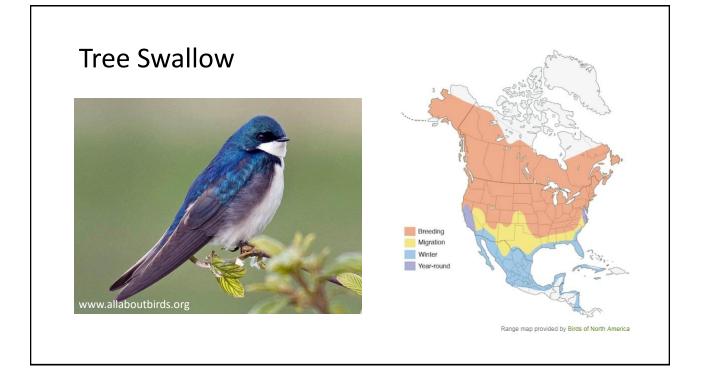
Uh-oh!

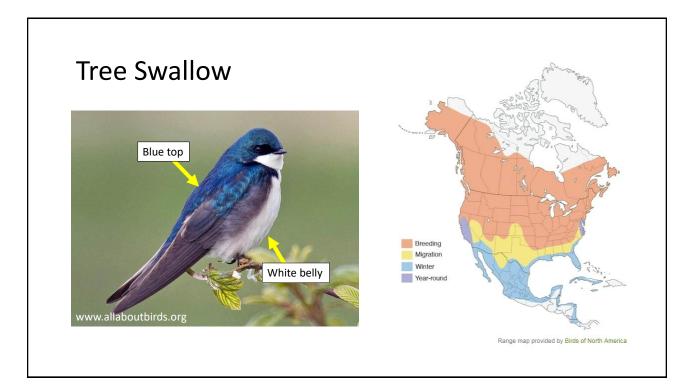
- Dirty under nests
- Try netting eaves that are inappropriate for nesting and adding wooden ledges where nesting is desired
 - https://nestwatch.org/learn/all-aboutbirdhouses/birds/barn-swallow/

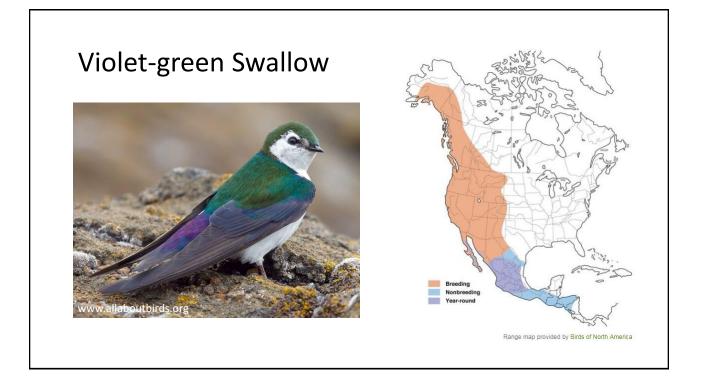


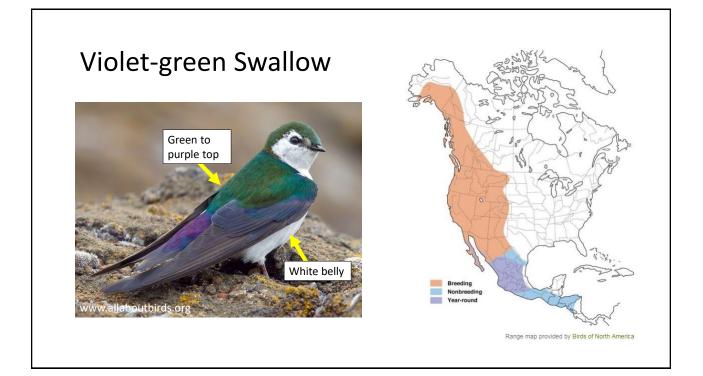
Cavity nest/nest box swallows

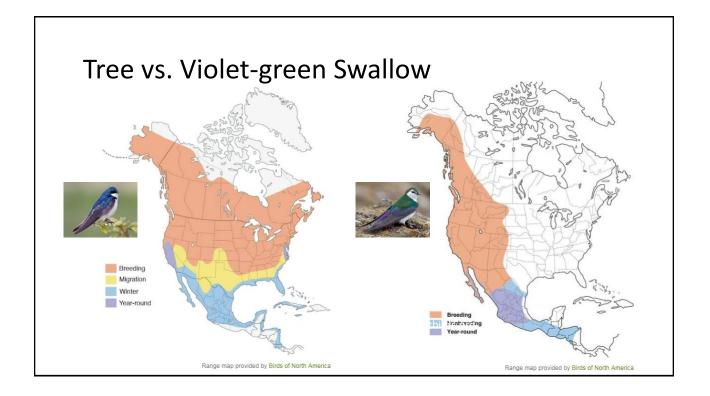






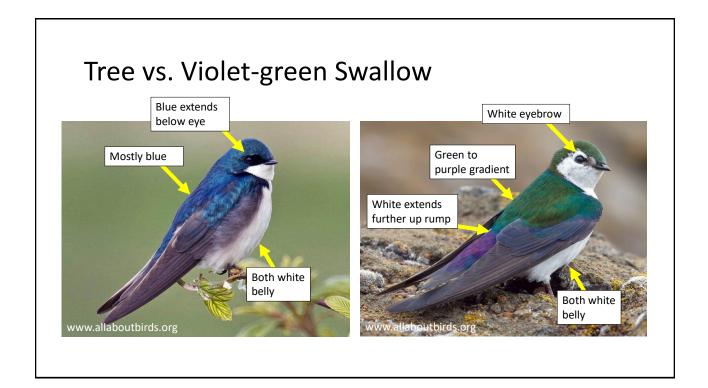




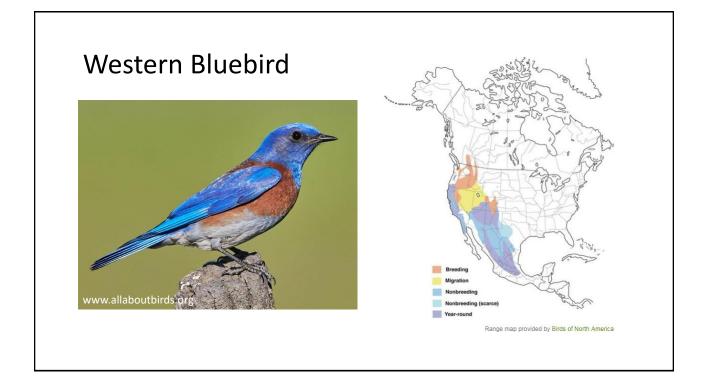


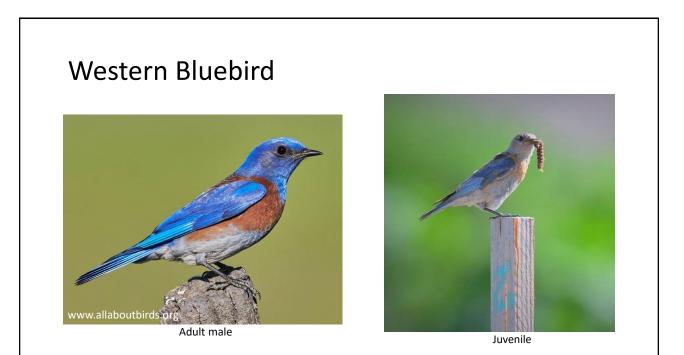
Tree vs. Violet-green Swallow

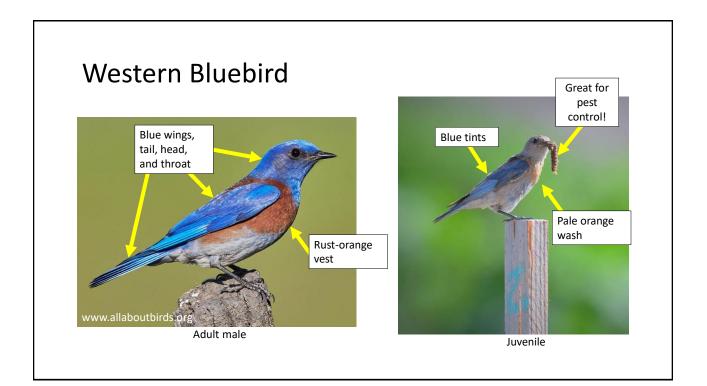


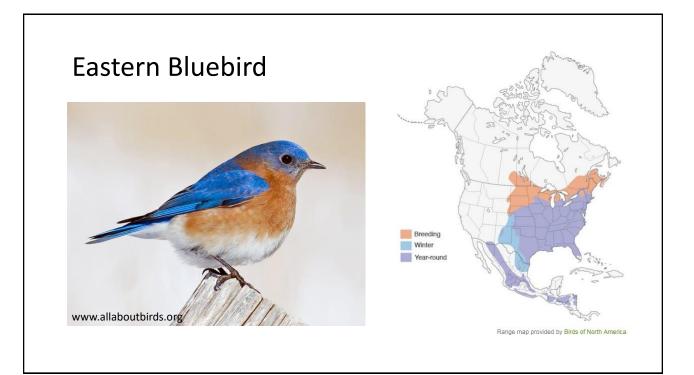










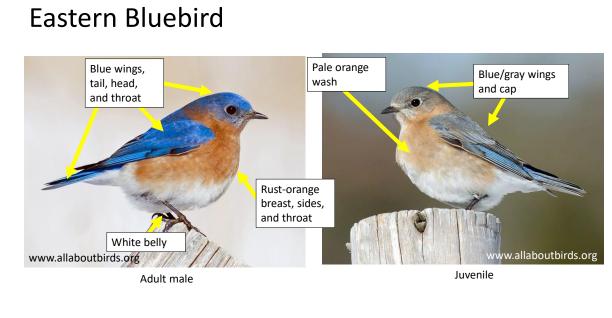


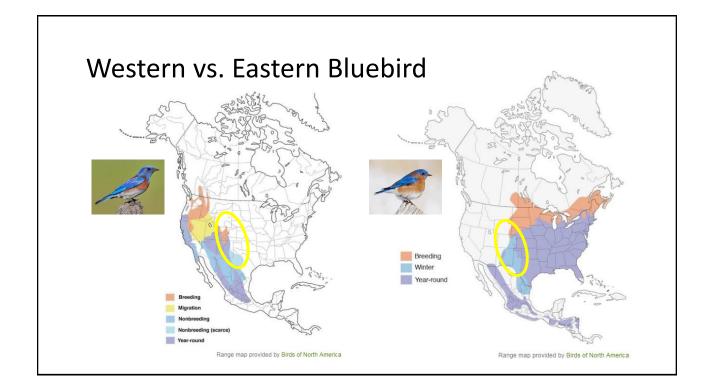
Eastern Bluebird

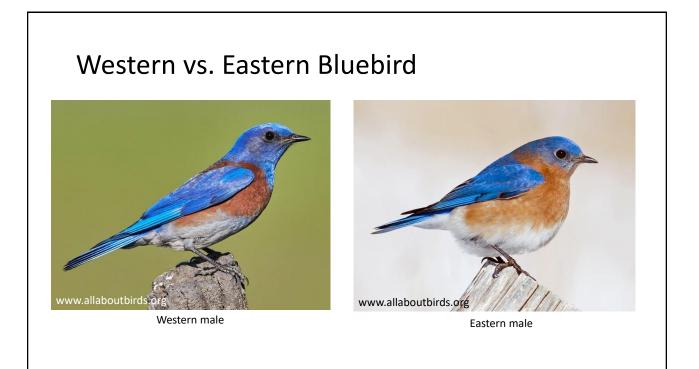


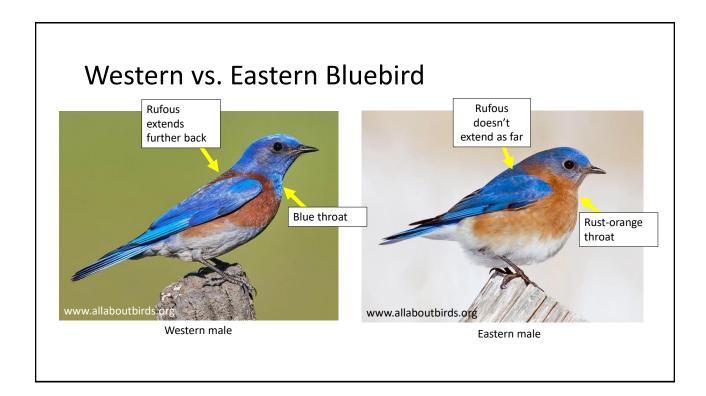


Eastern Bluebird Blue wings, tail, head,









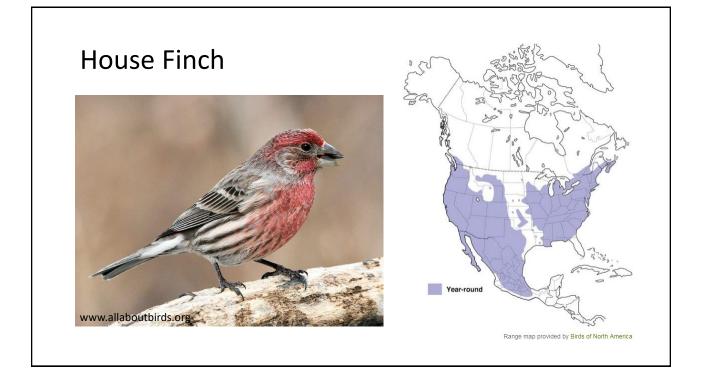
Attracting Bluebirds Great at insect control <u>https://articles.extension.org/pages/7434/western-bluebird-sialiamexicana-identification-diet-andmanagement-for-organic-farmers</u> Provide nest boxes near crops <u>https://nestwatch.org/learn/all-about-birdhouses/birds/western-bluebirds/western-birdhouses/birds/western-bluebirds/western-bluebirds/management-for-organic-farmers</u>

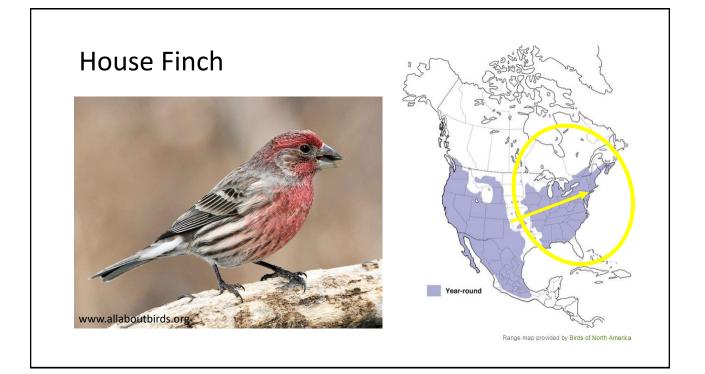
bluebird/

www.allaboutbirds.org

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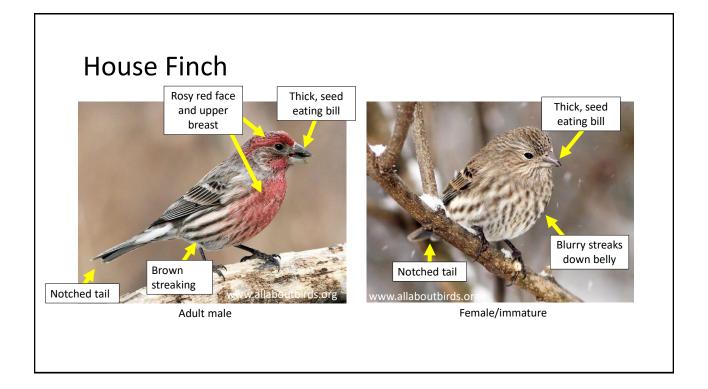
Finches

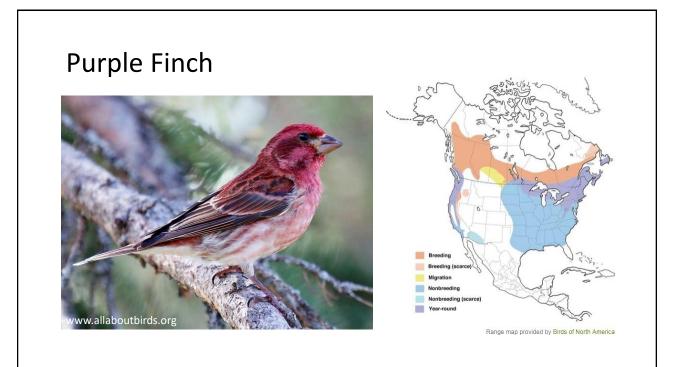




House Finch







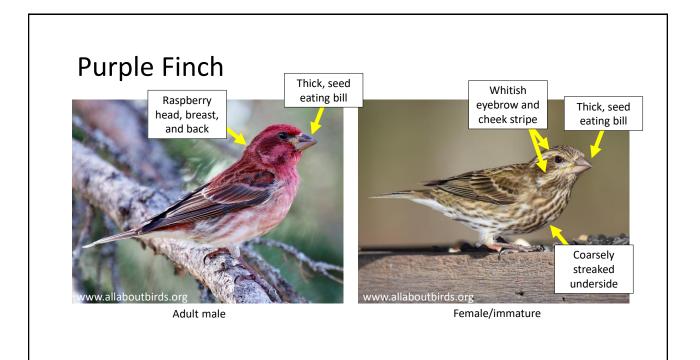
Purple Finch



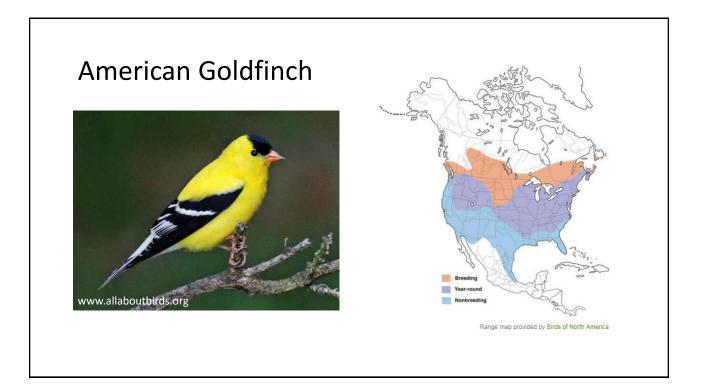


Adult male

Female/immature



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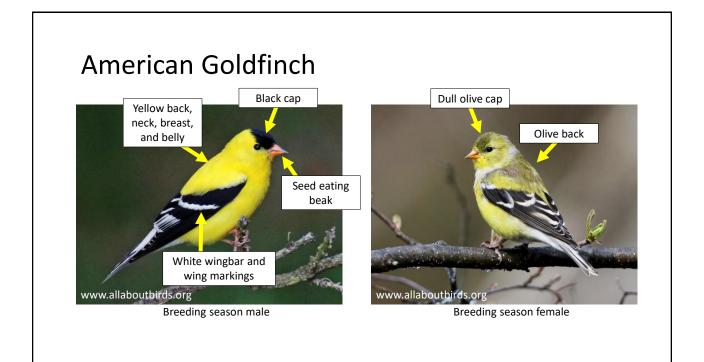


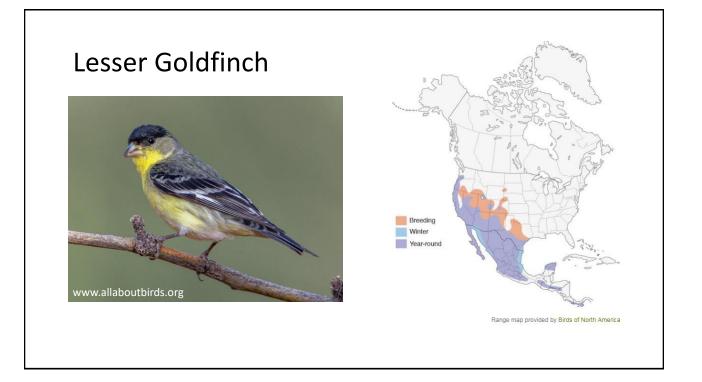
American Goldfinch





Breeding season female





Lesser Goldfinch



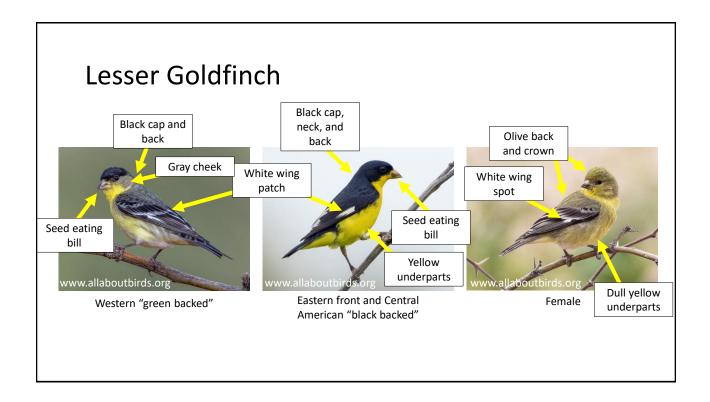
Western "green backed"

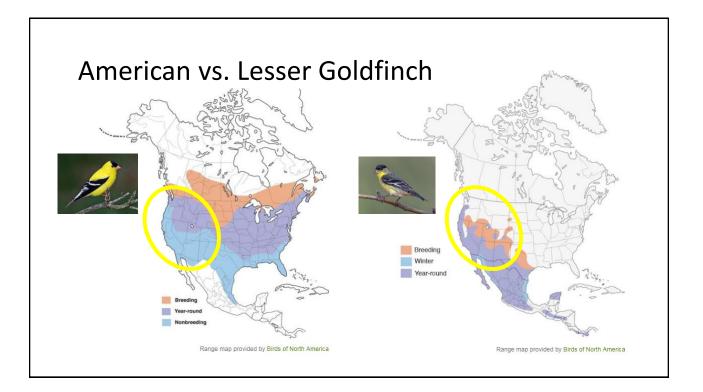


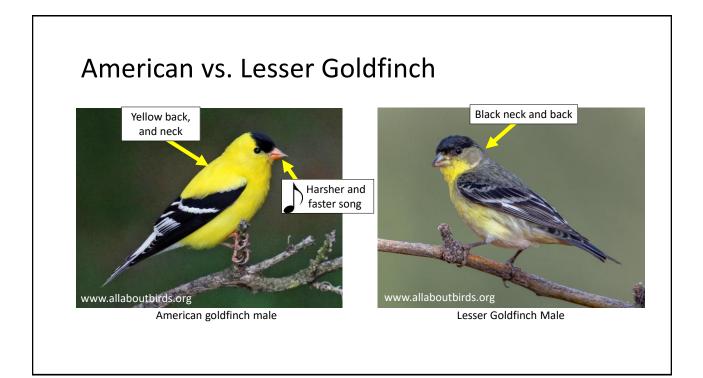
Eastern front and Central American "black backed"



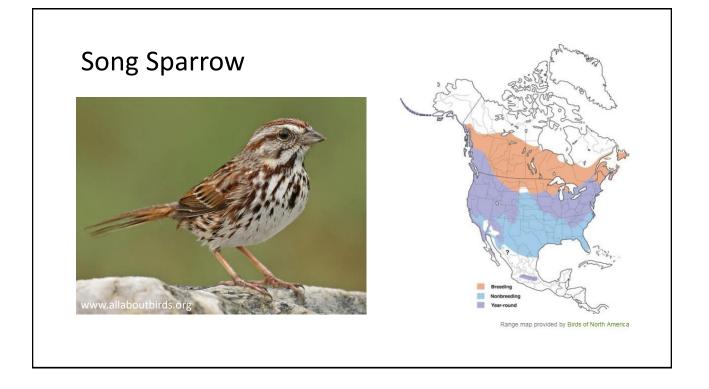
Female

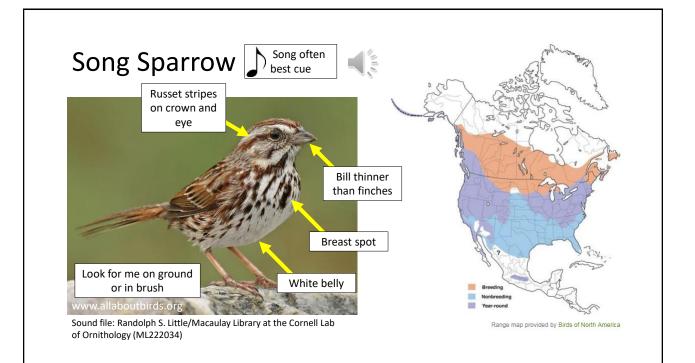


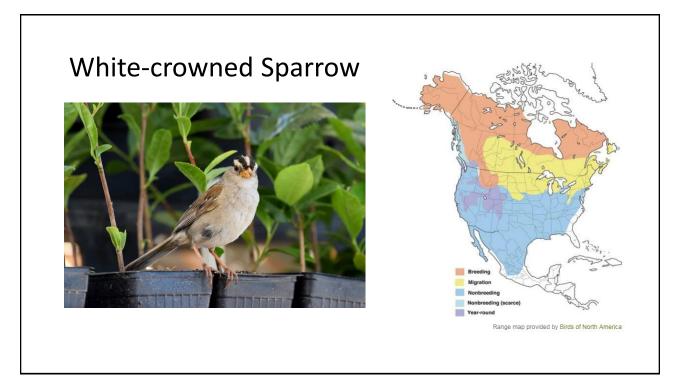


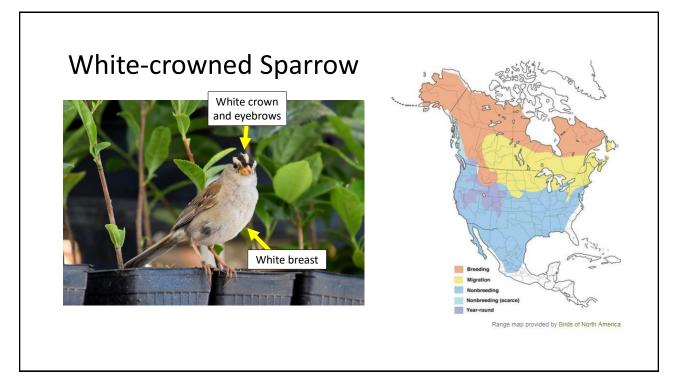


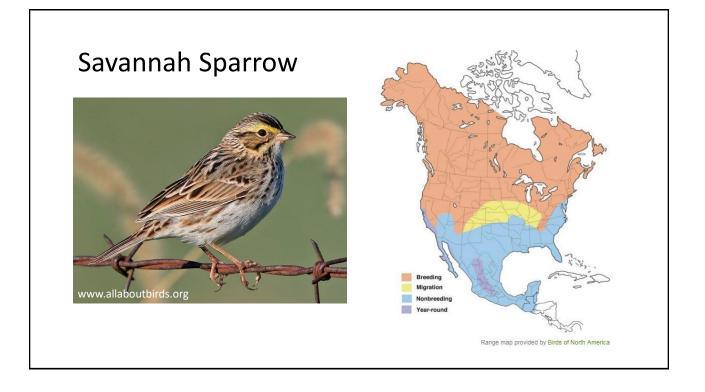


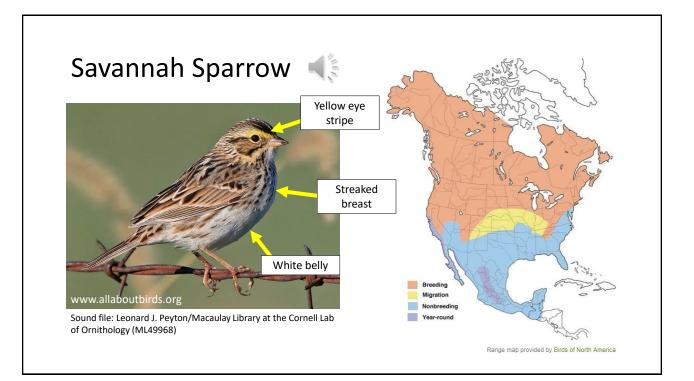


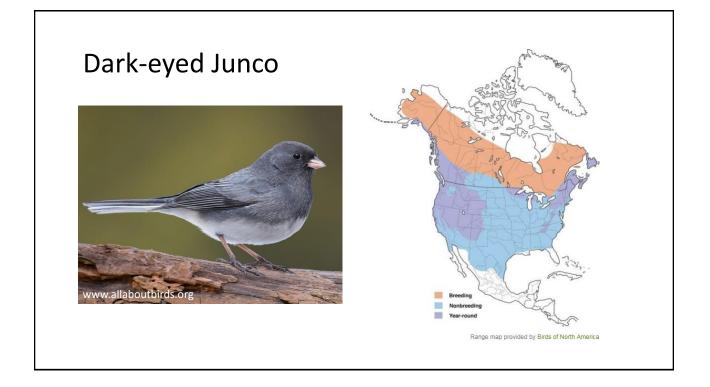










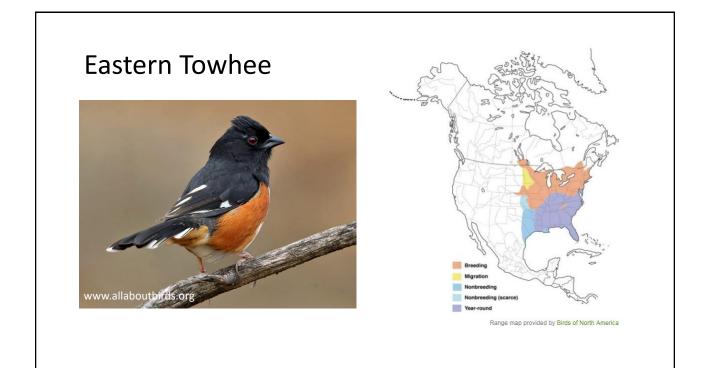


Dark-eyed Junco



Dark-eyed Junco



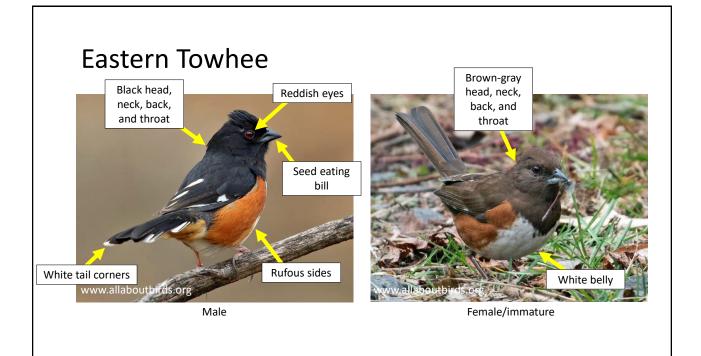


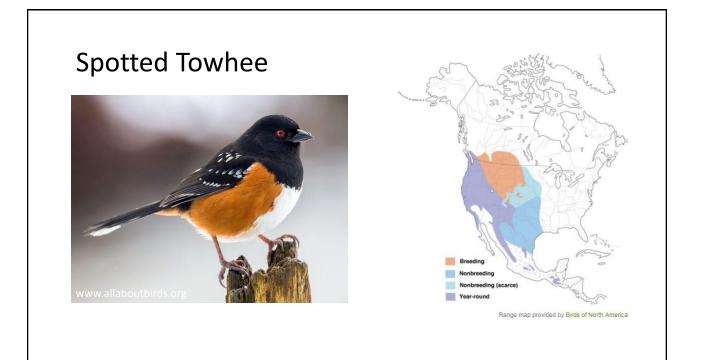
Eastern Towhee





Female/immature





Spotted Towhee



Female/immature

Spotted Towhee



Male

 www.allaboutbirds.org

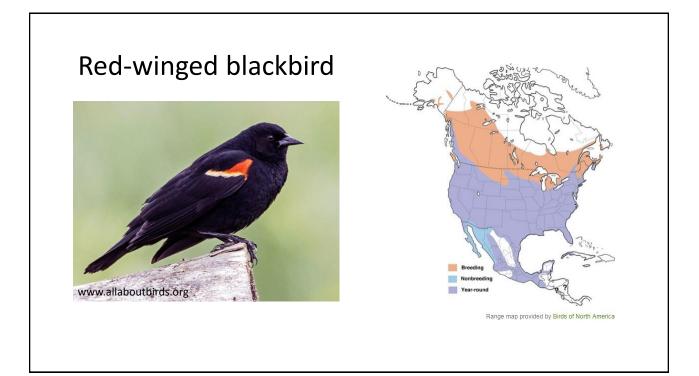
Female/immature

Sparrows

- Eat insects, transplants, and fruits
 - May help control pest insects
 - Will likely eat your transplants
 - Likes raspberries and other fruits
 - May help control weeds
- Brushy cover attracts them
 - Plant and retain brush near crops to attract sparrows
 - Weedy fields attract more sparrows
- Some nest in grasses
 - Leave some grassland or pasture to promote Savannah and Grasshopper Sparrows





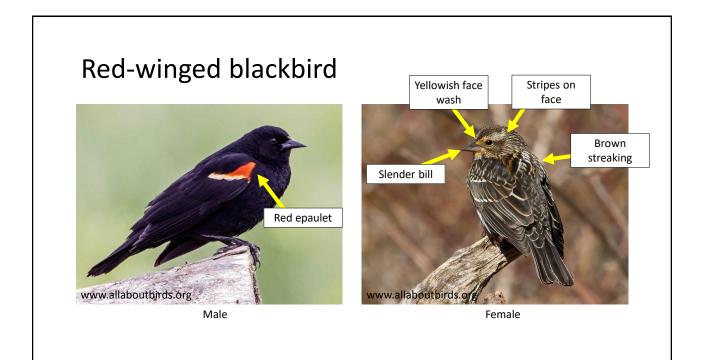


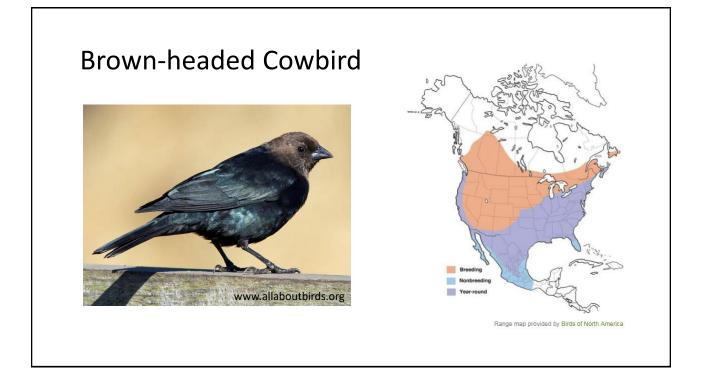
Red-winged blackbird





Female





Brown-headed cowbird



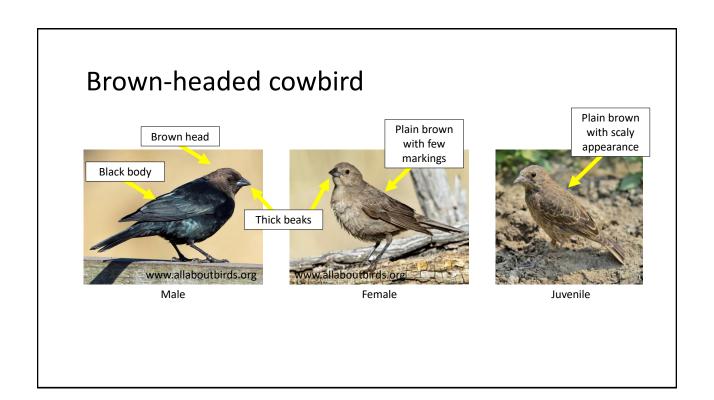
Male

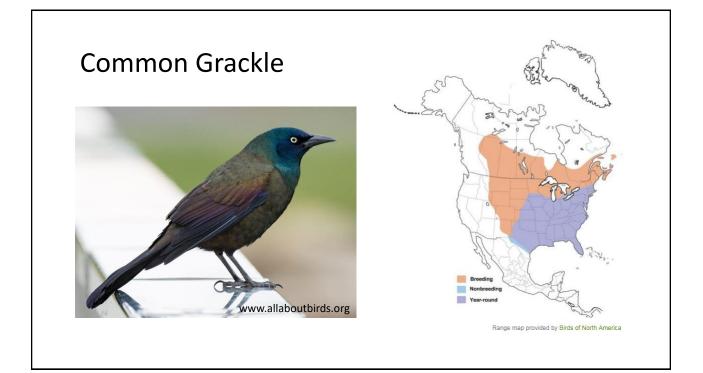


Female



Juvenile



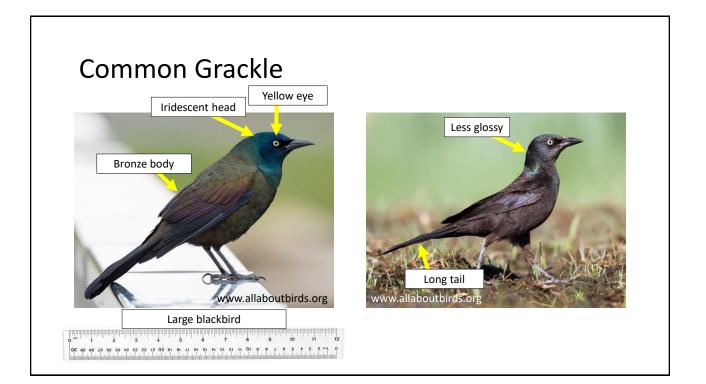


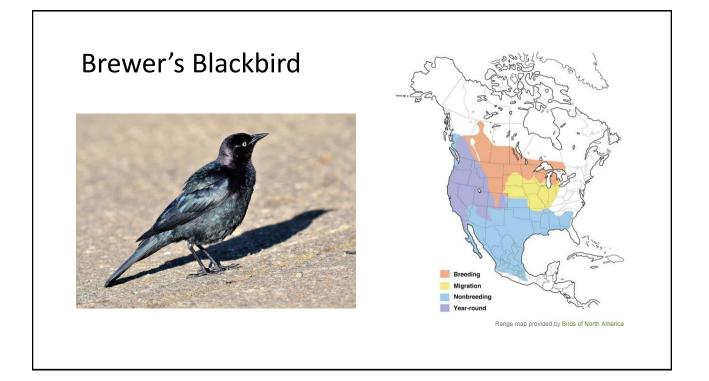
Common Grackle

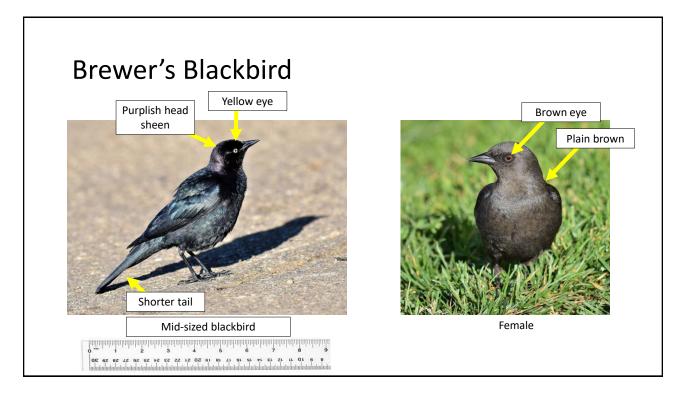




Female







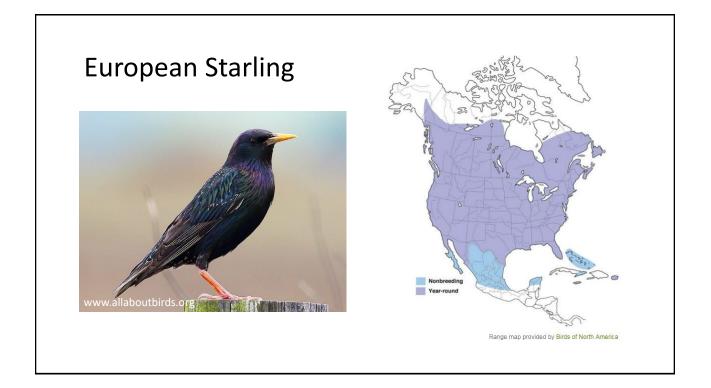
Blackbirds

- Eat insects and grain
 - Can help with insect pest control
 - Can damage crops
 - Often cause large livestock feed losses
- Often found around livestock
- Attract by putting out bird feeders, and promote nesting by leaving or creating wetlands



Introduced species



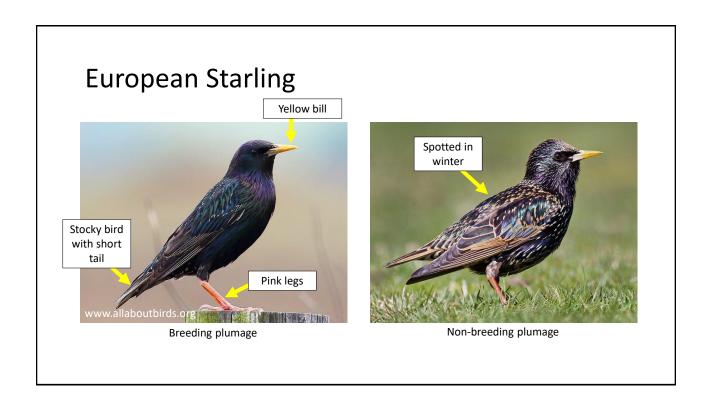


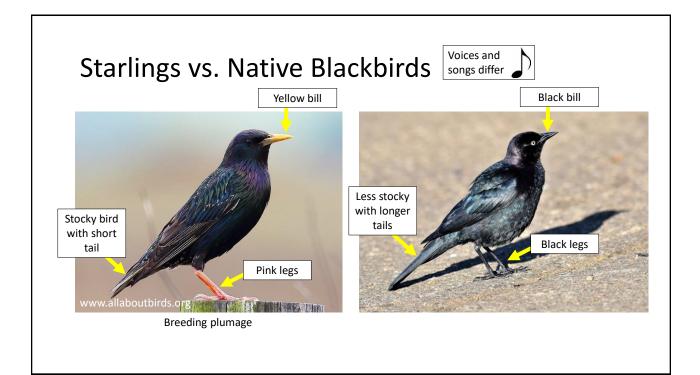
European Starling

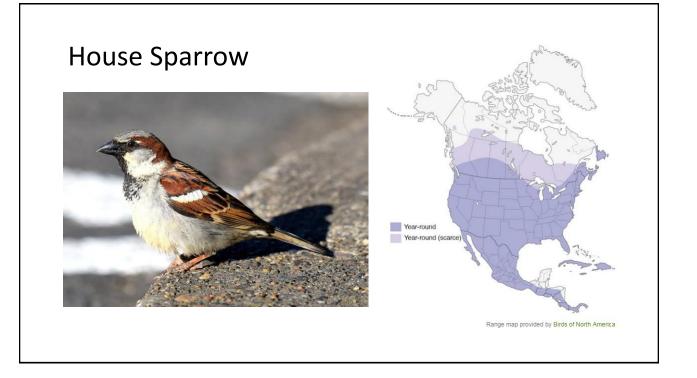




Non-breeding plumage







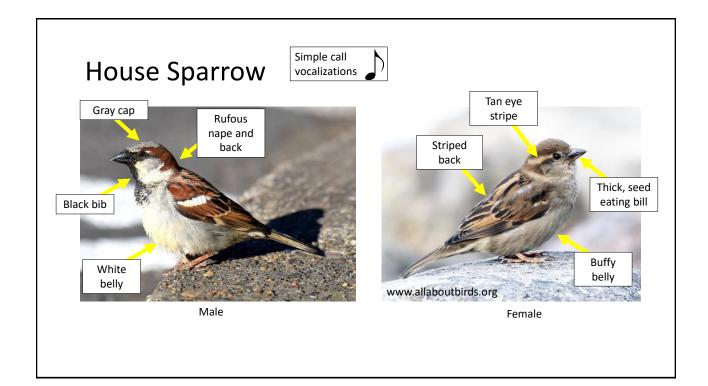
House Sparrow

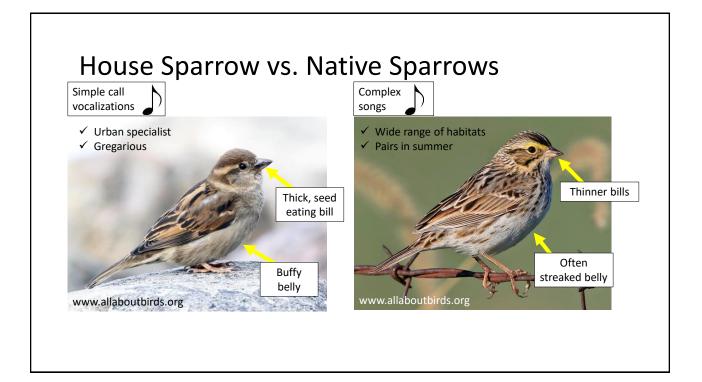


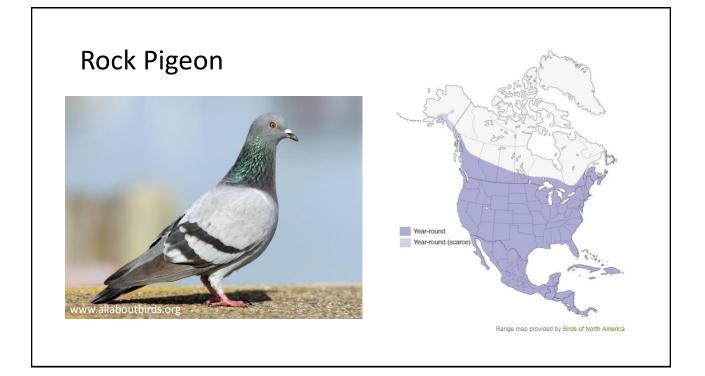
Male

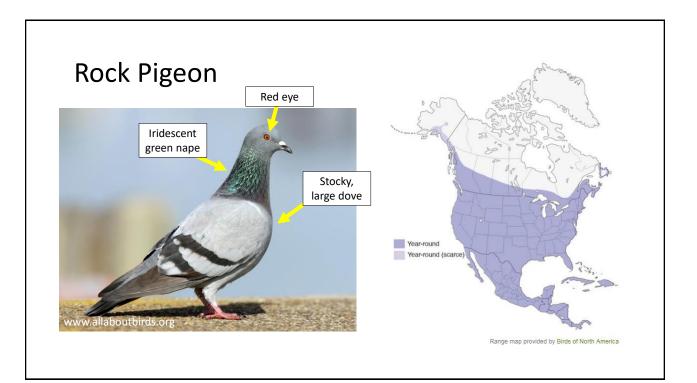


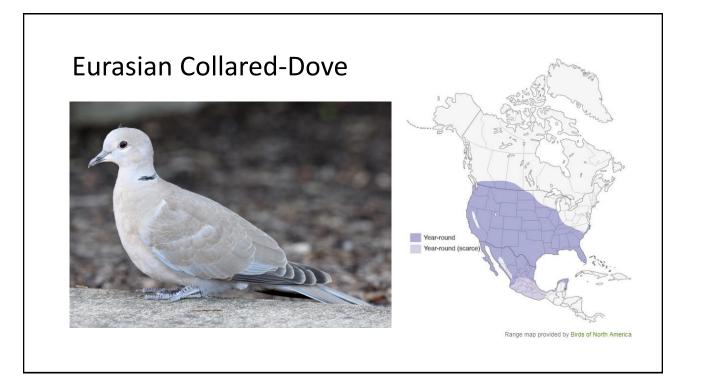
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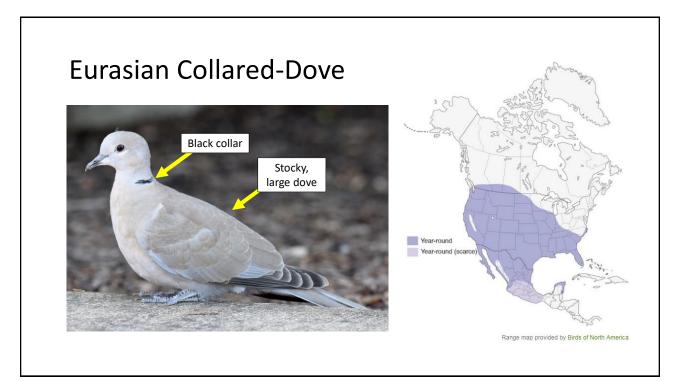












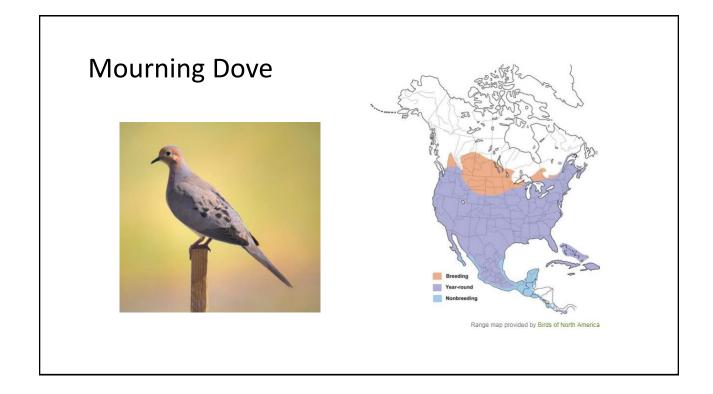
Managing Invasive Species

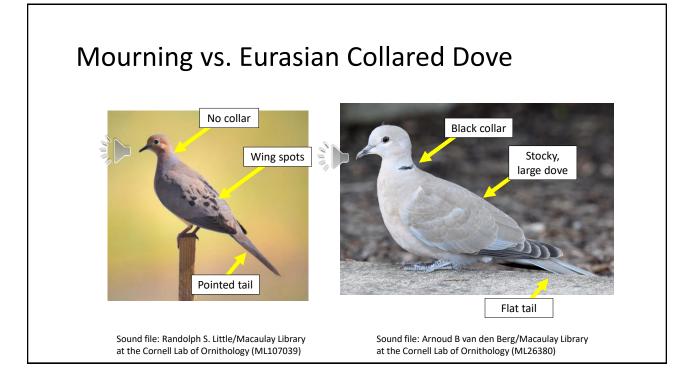
- Natives protected by Migratory Bird Treaty Act
- Invasives not protected
 - Can use lethal control
 - Monitoring nest boxes and removing invasives often recommended
- Prevent nesting on structures with netting



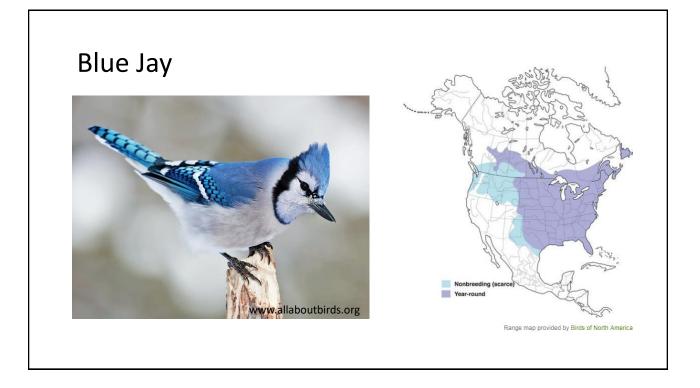
Native Doves

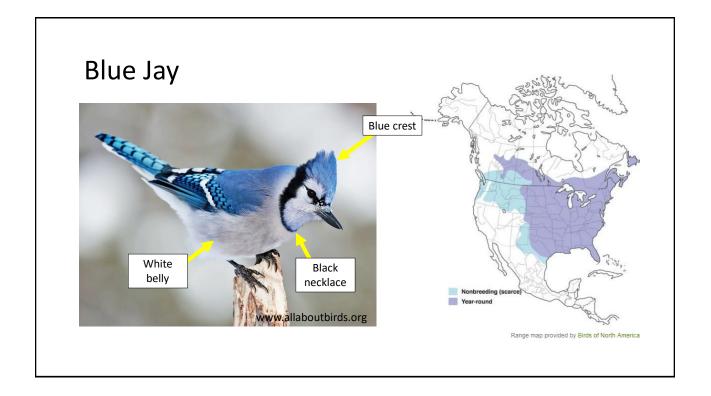


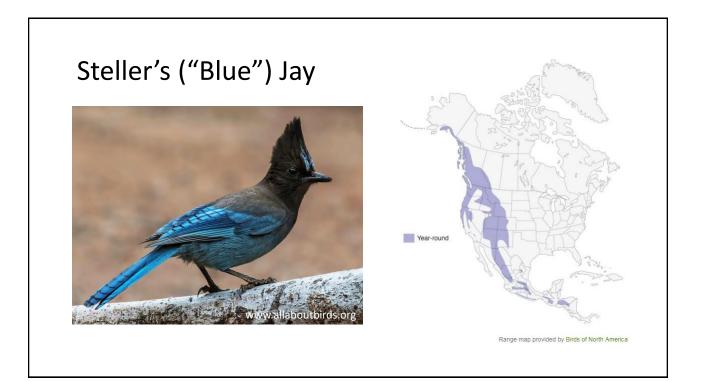


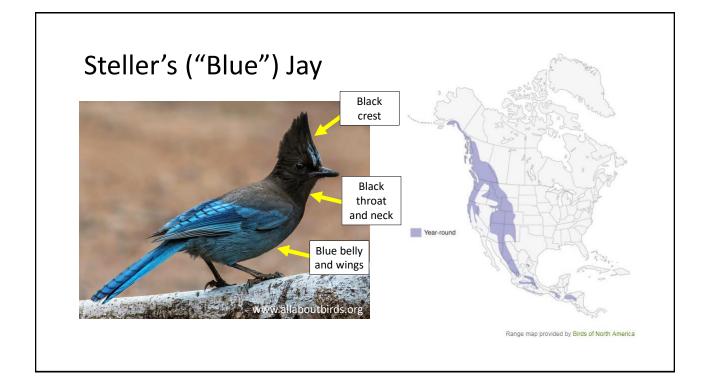






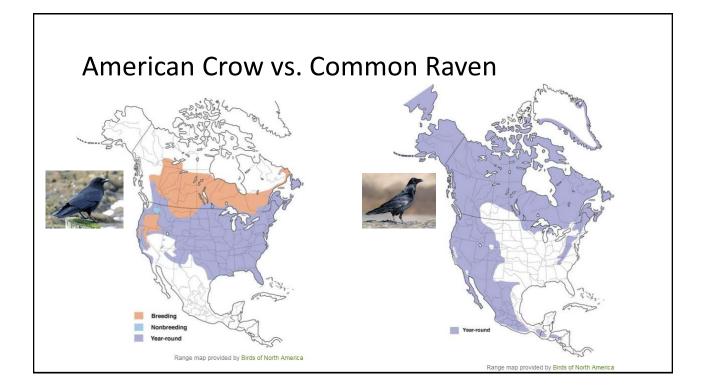






American Crow vs. Common Raven





American Crow vs. Common Raven

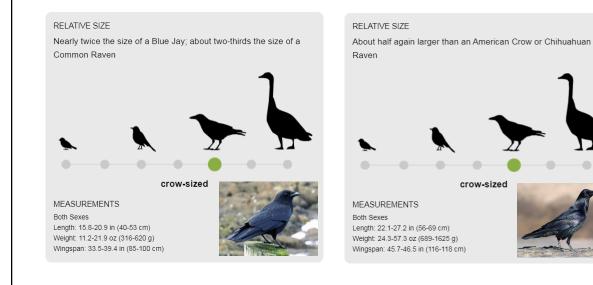


Sound file: Bob McGuire/Macaulay Library at the Cornell Lab of Ornithology (ML229089)



Sound file: William W. H. Gunn/Macaulay Library at the Cornell Lab of Ornithology (ML62386)

American Crow vs. Common Raven



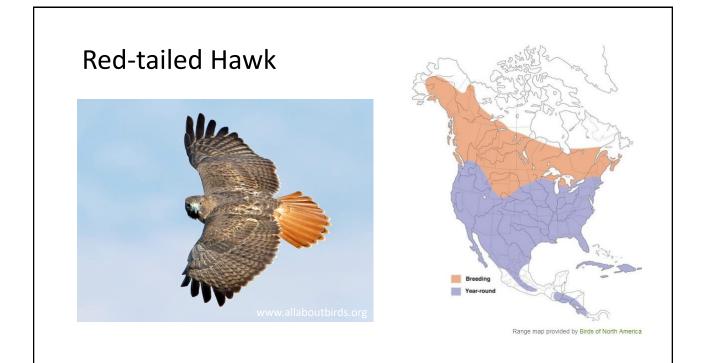
Managing Corvids

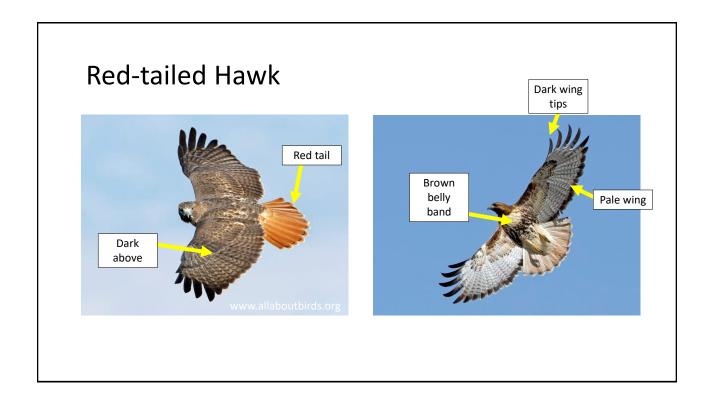
- Good luck!
- Attract with tray feeders or leave out peanuts or pet food
- Can encourage nesting with hedges or by leaving forest

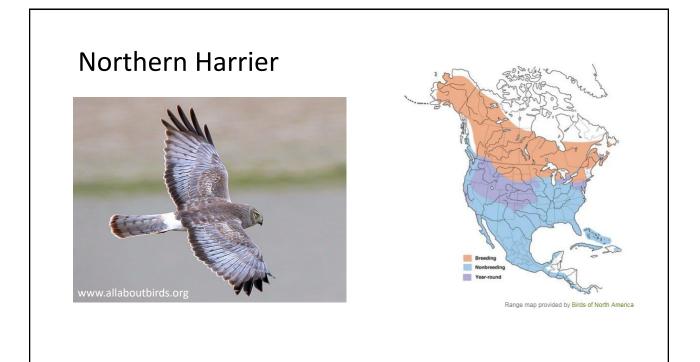


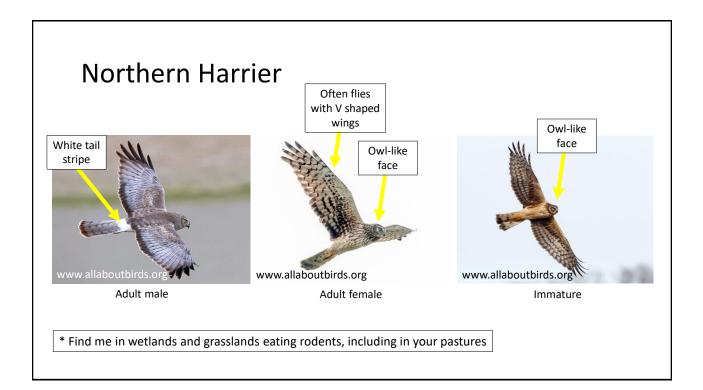


Raptors

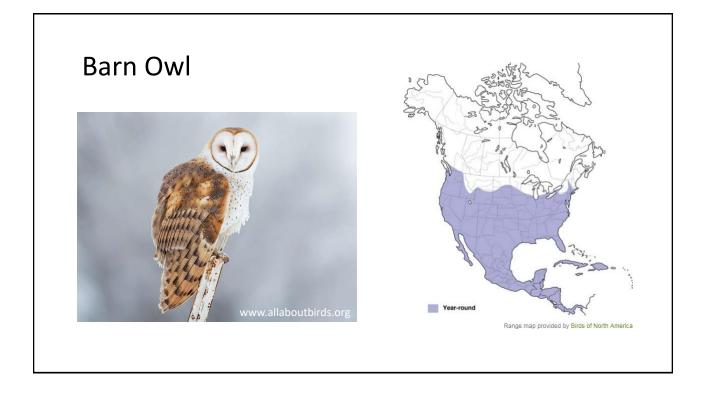


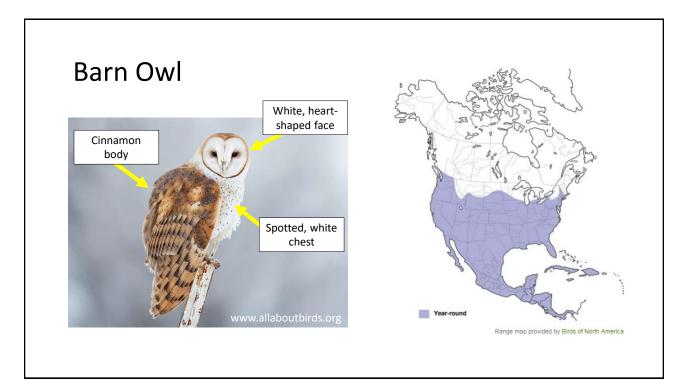






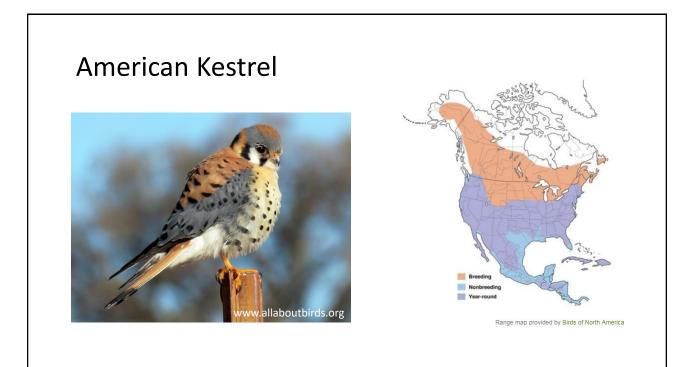


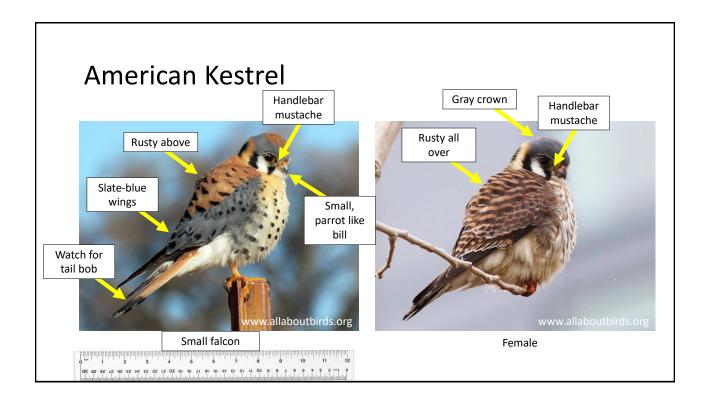




Promoting Barn Owls







Promoting Kestrels

- Beneficial for bird and rodent control
- Install nest boxes near crops you'd like protected
 - Will be most effective when chicks are in nest
 - https://nestwatch.org/learn/allabout-birdhouses/birds/americankestrel/



Summary

- Be patient!
 - The US has over 400 breeding birds
 - You can find over 700 birds in North America
- Learn general size and shape, plumage patterns, behaviors, vocalizations, and common habitats
- Birds play complex ecological roles and can both help and hurt the farm



Additional Resources

- Bird identification
 - Field guides (I like Sibley)
 - Merlin Bird ID App, eBird App, or https://www.ebird.org
 - <u>https://www.allaboutbirds.org/</u>
 - Cornell Lab of Ornithology Bird Academy <u>https://academy.allaboutbirds.org/course-list/</u>
- Bird song identification
 - Larkwire or other song learning app
 - Recordings available in eBird App, <u>https://allaboutbirds.org</u>, and <u>https://www.macaulaylibrary.org/</u>
- Habitat management
 - <u>https://nestwatch.org/</u>
 - <u>http://content.yardmap.org/</u>

Additional Resources

- eOrganic
 - Learn about how to use Merlin and Habitat Network at https://www.youtube.com/watch?v=vPxuQWmOZ1Q
 - · Articles on promoting beneficials and identifying nests
 - <u>http://articles.extension.org/pages/74436/identification-diet-and-management-of-chickadees-and-warblers-common-on-organic-farms</u>
 - <u>http://articles.extension.org/pages/74435/identification-diet-and-management-of-swallows-and-swifts-common-on-organic-farms</u>
 - http://articles.extension.org/pages/74434/western-bluebird-sialia-mexicanaidentification-diet-and-management-for-organic-farmers
 - <u>http://articles.extension.org/pages/74686/identifying-bird-nests-on-farm-structures</u>



Find all upcoming and archived webinars at http://articles.extension.org/pages/25242 and on the eOrganic YouTube channel. This recording will be available within 1-2 weeks.
Have an organic farming question? Use the eXtension Ask an Expert service at https://ask.extension.org/groups/1668
Please send your feedback! We will email you a survey about this webinar later today.
Thank you for coming!