Lane Community College

The Learning Garden

Bird Reference Guide

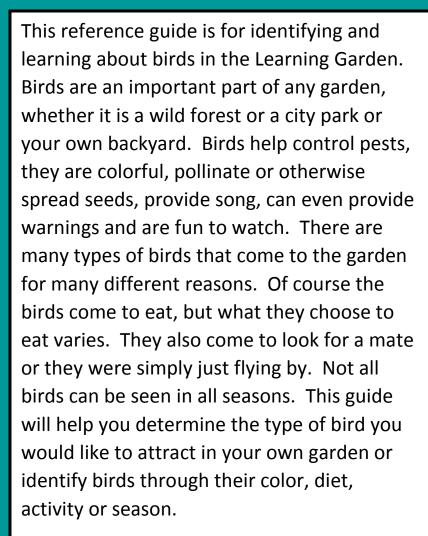




American Robin



Goldfinch





Turkey Vulture

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Bird Evolution - and History -

Hundreds of millions of years ago birds arrived on Earth as flying dinosaurs, called pterosaurs. Approximately 150 million years ago these flying dinosaurs were either joined by or evolved into feathered creatures. Popular scientific belief is that birds also descended from two legged running dinosaurs creating such birds as the dodo or ostrich. It is easy to believe that a stork or heron descended from a pterosaur or that the dodo is a distant cousin of T Rex.*

As dinosaurs died out in the late Cretaceous period (over 70 million years ago) birds began looking more like they are today and came in various sizes, habitats and traits.**

There are many species of birds today that live in all types of habitats. Birds can adapt to habitats that may seem harsh to survival. For example, in the desert birds may get their water from seeds or insects. In Arctic areas birds roost in snowdrifts or form moving packs to stay warm. Other birds migrate based breeding, food sources or weather.

The most interesting thing about birds is the ability to fly. Bird wing shape varies widely and is designed for type of flight. Some birds soar like eagles, others, such as hummingbirds can hover in one spot. In the example of penguins the wings are not to fly in the air, but rather to fly under water.***





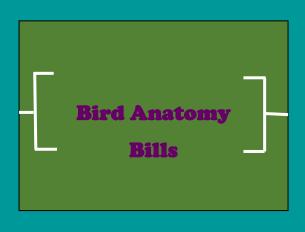


There are both migratory and year round birds in the Learning Garden; predatory and foraging birds; as well as forest and open prairie birds.

^{*}Information and page pictures from http://www.pbs.org/lifeofbirds/evolution/.

^{**}Information from http://www.nhm.org/site/research-collections/dinosaur-institute/dinosaurs/birds-late-evolution-dinosaurs

^{***}All preceding information from: http://birds.audubon.org/birdid/resources/natural-history



SHAPE	ТҮРЕ	ADAPTATION
	Cracker	Seed eaters like sparrows and cardinals have short, thick conical bills for cracking seed.
	Shredder	Birds of prey like hawks and owls have sharp, curved bills for tearing meat.
Take 1	Chisel	Woodpeckers have bills that are long and chisel-like for boring into wood to eat insects.
O	Probe	Hummingbird bills are long and slender for probing flowers for nectar.
ھو	Strainer	Some ducks have long, flat bills that strain small plants and animals from the water.
	Spear	Birds like herons and kingfishers have spear-like bills adapted for fishing.
	Tweezer	Insect eaters like warblers have thin, pointed bills.
	Swiss Army Knife	Crows have a multi-purpose bill that allows them to eat fruit, seeds, insects, fish, and other animals.

http://www.normanbirdsanctuary.org/beak_adaptations.shtml

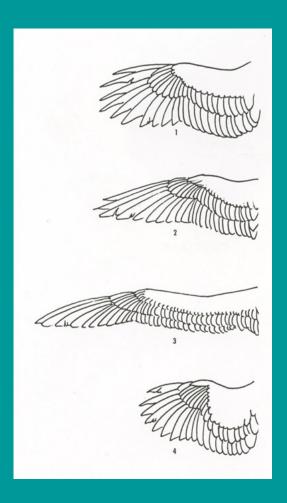


SHAPE	TYPE	ADAPTATION
A B	Grasping	Raptors like Osprey use their large curved claws to snatch fish from the water.
大	Scratching	Pheasants and other birds that scratch the soil for food have nail-like toes.
V	Swimming	Ducks and other webbed lined swimming birds use their feet like paddles.
	Perching	Robins have a long back toe, which lets them grab a perch tightly.
	Running	Many fast-running birds have three toes rather than four.
Z	Climbing	A woodpecker's hind toes enable it to climb without falling backward.

http://www.normanbirdsanctuary.org/beak_adaptations.shtml

Bird Anatomy Wings

- Long, wide wings are used by soaring birds such as hawks, eagles and ravens. A wing is considered long when it exceeds the length of the bird's body
- 2. Narrow and pointed wings are used by fast flying birds such as swallows, swifts and many migratory birds.
- Long and narrow wings are used by gliding birds such as gulls and terns.
- 4. Wide and round wings are used for short, fast and quick-escape flight birds such as grouse, pheasants and owls



http://sandyscottblog.blogspot.com/2013 05 01 archive.html



BIRDS OF THE LEARNING GARDEN

- Corvus brachyrhynchos American
 Crow
- Spinus tristis American Goldfinch
- <u>Turdus migratorius</u> American
 Robin
- <u>Poecile atricapillus</u> Black Capped
 Chickadee
- <u>Pheucticus melanocephalus</u> Black
 Headed Grosbeak
- Psaltriparus minimus Bushtit
- Junco hyemalis Dark Eyed Junco
- Psaltriparus minimus Killdeer
- Passerina amoena Lazuli Bunting
- Zenaida macroura Mourning
 Dove
- Colaptes auratus Northern Flicker
- Pandion haliaetus Opsrey
- <u>Dryocopus pileatus</u> Pileated
 Woodpecker
- Sitta canadensis Red Breasted
 Nuthatch

- <u>Buteo jamaicensis</u> Red Tailed
 Hawk
- <u>Selasphorus rufus</u> Rufous
 Hummingbird
- <u>Melospiza melodia</u> Song
 Sparrow
- <u>Pipilo maculatus</u> Spotted
 Towhee
- Cyanocitta stelleri Steller Jay
- <u>Cathartes Aura</u> Turkey Vulture
- Ixoreus naevius Varied Thrush
- <u>Aphelocoma</u><u>californica</u> Western Scrub Jay
- <u>Piranga ludoviciana</u> WesternTanager
- Meleagris gallopavo Wild

This list is not exhaustive. See Other Birds of The Willamette Valley on Page 16 for more birds that are not pictured in this guide.



AMERICAN CROW - One of the most commonly seen birds, crows will eat just about anything off the ground but usually go for earthworms, insects, seeds and fruit. Crows will also rob chicks from nests and steal from other birds. Crows are rarely alone, can be aggressive and are always inquisitive.



AMERICAN GOLDFINCH - The Goldfinch is the state bird of our neighbor to the north, Washington State. More common in winter they can be seen year round in the Pacific Northwest. Goldfinches will cling to weeds while eating the seeds (as shown in the picture on page 2) and follow a strictly vegetarian diet.



AMERICAN ROBIN – In many parts of the United States robins are a sign of Spring, however there are just as many parts where the robin is a year round bird. Robins are the quintessential worm eating bird although they fest on insects, berries and other fruits as well. Robins will live most anywhere from cities to forests.



BLACK CAPPED CHICKADEE - These birds can be found in any habitat in the northern parts of United States and southern Canada. They are year round residents grabbing seeds to eat while perched in a tree.



BLACK HEADED GROSBEAK Oregon is a summer breeding ground
for the black headed grosbeak. Black
headed grosbeaks like dense foliage
where they can eat insects and seeds.
The best habitat for this bird is the
Learning Garden because of its mixed
woodland and various smaller plants.



BUSHTIT - These birds are found in flocks and continuously make noise in whether the form of chirps and twitters. They can hang upside down to eat small insects and spiders from plant leaves. A year round visitor to the Learning Garden, the environment here is perfect since Bustits love forests and streams with a side of open land.

http://www.allaboutbirds.org/guide/bushtit/id

http://v

Caryn Stoess



MOURNING DOVE - Mourning doves will fly onto the ground in the garden to look for snails, seeds and insects. If you see one look for others, they usually come in groups to feed. The mourning dove has a very distinctive coo although only the male makes this sound.



NORTHERN FLICKER - Northern Flickers are actually woodpeckers however you will most likely see them on the ground looking for insects. Their main diet is ants and beetles that they with dig up with their bills. Like woodpeckers the Northern Flicker will drum on tree trunks as a means of communication.



http://ibc.lynxeds.com/photo/osprey-pandion-haliaetus/osprey-seen-during-dyke-marsh-breeding-bird-survey

OPSREY – Ospreys are common throughout the Americas but breed in the Pacific Northwest in the summer time. Eating only fish you'll see Osprey in the air over Russell Creek or perhaps returning from the Willamette River with a meal.



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PILEATED WOODPECKER - Pileated Woodpeckers look for carpenter ants in dead trees and fallen logs. Their pecking leaves rectangular holes in the wood. Pileated Woodpeckers like our tall western hemlock trees for nesting and searching for food.



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RED BREASTED NUTHATCH - These birds live in the north woods and western mountains of North America. Red Breasted Nuthatches hop up and down and sideways over trees looking for insects under the bark. Look for these birds in forested areas.



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RED TAILED HAWK - Another year round resident, Red Tailed Hawks are the most common hawk in North America. They eat small animals and are usually seen soaring over open fields. They prefer to perch high on things like telephone poles, fences or trees.



RUFOUS HUMMINGBIRD - You may hear this bird before you realize what is making that noise! As the male Rufous hummingbirds zip around their wings make a buzzing sound. They zoom from flower to flower drinking the nectar and often chasing each other around the garden. They will come to rest, however, on the fence and allow you to get a good look at them.



SONG SPARROW - Song Sparrows are the most common sparrow in North America. There is a wide variety of differences depending on the region but they all have streaks on the chest. Song Sparrows eat seeds and fruits mainly but will also dine on insects.



SPOTTED TOWHEE - This bird loves hanging out in the bushes just beyond the garden fence and can be heard rustling around. Watch for them to make their way to the fence and then to the garden floor where they scratch around for insects. They also eat seeds and berries.



STELLER JAY – Steller Jays are common in the Western forests where they are often called "camp robbers" since they are quick to attack unattended food. As with other jays, Steller Jays are inquisitive, bold and noisy. Anywhere there is food you will find a Steller Jay.



TURKEY VULTURE – Turkey Vultures may seem like they are year round but in Oregon they are summer birds and spend their time here breeding.

Turkey Vultures are often seen gliding on thermals above the Learning Garden looking for carrion. They may be seen alone or soaring in small groups.



VARIED THRUSH - Varied Thrushes are found only in the Pacific Northwest. They eat insects in the summer time but dine on berries and seeds in the winter. Listen for their song that sounds somewhat like a referee's whistle.



WESTERN SCRUB JAY - These birds are loud and like to hang out in the oak trees near the composting piles of the garden. They eat seeds and nuts and occasionally other birds' eggs or young and small animals. The Western scrub jay will often carry its food off and bury it for later consumption, this action helps plant new trees and shrubs.



WESTERN TANAGER - Western Tanagers visit Oregon for breeding in the summer time. Feeding on insects these birds migrate to Central America for winter.



WILD TURKEY - Turkeys eat nuts, berries, insects and snails. They can be seen searching the leaf litter for food. Turkeys do not fly well but do roost in groups in trees at night. In fact, if you see one turkey look for others as turkeys always travel in groups.



DARK EYED JUNCO - Juncos are a type of sparrow and can be found year round in Oregon. Searching for seeds you can see them hopping about and chirping while foraging on the ground. Juncos live all over North America and the coloring varies depending on the region.



KILLDEER - Killdeer are in the plover family and can swim quite well but are not necessarily water birds.

Killdeers eat insects, earthworms and may even hunt frogs. They live around the Learning Garden year round and can be seen running a few steps and stopping to look around before running again.



LAZULI BUNTING - The Lazuli
Bunting is a summer time visitor to
the Learning Garden. They like
hanging out in shrubs and forage for
insects on the ground before
migrating down to the coastal areas of
Central America.

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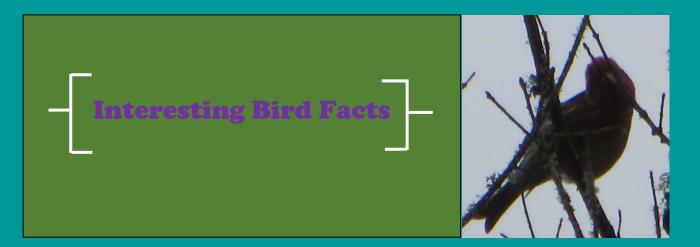


Other Birds of the Willamette Valley

Bird	Spring	Summer	Fall	Winter
American Kestrel	•	•	•	•
Barn Swallow	•	•	•	
California Quail	•	•	•	•
Cedar Waxwing	•	•	•	•
Common Yellowthroat		•		
Downy Woodpecker	•	•	•	•
Great Blue Heron	•		•	•

Great Horned Owl	•			•
House Finch	•	•	•	•
House Sparrow	•	•	•	•
Lesser Goldfinch	•	•		
Northern Harrier	•		•	•
Purple Finch	•			
Raven	•		•	•
Red-Breasted Nuthatch	•	•	•	
Red-Breasted Sapsucker	•			
Red-Winged Blackbird	•	•	•	•

Rock Dove	•	•	•	•
Savannah Sparrow	•	•	•	
Starling	•	•	•	•
Tree Swallow		•		
White Crowned Sparrow	•	•	•	•
Yellow-Rumped Warbler	•			•



- The American Goldfinch is the only finch that molts twice a year.
- In the United States the word "buzzard" means vulture and in Europe it means hawk.
- Male Lazuli Buntings have only one song.
- All European Starlings in the United States have descended from the same 100 birds let loose in Central Park in the 1890's.
- Rufous Hummingbirds have excellent memories for location helping them find the same feeders and flowers year after year.
- Black Capped Chickadees allow brain neurons with old information to die, replacing them with new neurons that allow for adaptation in their environment.
- Great Blue Herons weigh only five or six pounds.
- Steller's Jays can mimic dogs, cats, squirrels and chickens as well as mechanical objects.
- Male Spotted Towhees sing for up to 90% of the morning until they find a mate, after that it drops to 5%.
- Wild turkeys can swim if necessary.
- The Great Horned Owl is the only animal that regularly eats skunks.
- The California Quail's top knot is made of six overlapping feathers.
- Song Sparrows of the Aleutian Islands are one third longer and weigh twice as much as their continental counterparts.
- Barn Swallows are the most abundant and widely distributed swallow in the world.

Source of bird facts: Cornell Lab of Ornithology; http://www.birds.cornell.edu/Page.aspx?pid=1478

More Information



Local:

Cascades Raptor Center

32275 Fox Hollow Road

Eugene, OR

Willamette Wildlife Rehabilitation

Call the WILDLIFE HOTLINE

when you find injured, ill, or orphaned wildlife:

541-485-8440

Remember that it is illegal to keep a wild animal.

William L. Finley National Wildlife Refuge

26208 Finley Refuge Road

Corvallis, OR

Online:

Cornell Lab of Ornithology

http://www.birds.cornell.edu/Page.aspx?pid=1478

Audubon Society

http://www.audubon.org/