Nest-Box Guide for Virginia's Cavity-Nesting Birds

Virginia is home to many unique bird species that rely on cavities for nesting and raising their young. Normally, these birds would take full advantage of any natural holes in dead standing trees (i.e. snags), many of which are made by woodpeckers that create their own nesting cavities each year, or from branches that have broken free and created an opening. Therefore, unless they pose a safety risk, it is critical to leave snags standing.

However, natural cavities have become limited where snags have been removed. Nest-boxes can be used as a surrogate cavity to attract many of our cavity nesting bird species. Over the years we have been able to refine the designs of nest-boxes to maximize the likelihood that a target species will be able to successfully use the box.



Eastern Bluebird

Dimensions: 9"x5.5"x5.6" **Entrance Size:** 2.25"x1.37" **Height From Ground:** 4-6' Space Between Boxes: 300' Orientation: East

Habitat: Grassland. Open

Woodland

Attach To: Pole. Fence Post



Prothonotary Warbler

Dimensions: 8"x5.5"x5.5" Entrance Size: 1.25" Height From Ground: 4-12' Space Between Boxes: 235' **Orientation:** Towards water

Habitat: Wetland Attach To: Dead or Live

Tree. Pole



Wood Duck

Dimensions: 24"x8"x9.25" Entrance Size: 3"x4" **Height From Ground:** 6-30' Space Between Boxes: 600' **Orientation:** Toward Water

Habitat: Wetland

Attach To: Pole in Water or

on Bank



Eastern Screech-Owl

Dimensions: 17.37"x9.62"x11.25"

Entrance Size: 3"x4" Height From Ground: 10-30' Space Between Boxes: 100'

Orientation: Any

Habitat: Forest, Open Woodland

Attach To: Live Tree. Pole



House Wren

Dimensions: 8"x5.5"x5.5"

Entrance Size: 1"

Height From Ground: 5-10' Space Between Boxes: 100'

Orientation: Any Habitat: Forest, Open Woodland, Shrub

Attach To: Dead or Live Tree.

Building, Pole





- Predator guards are an important way to protect the birds inside the box. There are many designs that are not necessarily depicted here, but many involve a slippery baffling, hardware cloth, or both.
- The exact diameter of the entrance hole is not only important for accommodating your target species, but also for excluding predators.
- Critically important: the inside face of a nest-box should never be smooth; either etch out notches in the wood, install an interior perch, or add hardware cloth to act as a ladder. Birds often need something to grip in order to leave the box.
- Opening the nest-box during the nesting season can pose a serious risk to the birds and eggs inside. It is best to leave the box closed and enjoy the activity around the box from a distance.
- Nest-boxes should be cleaned out once a year to reduce the likelihood of parasites and disease. Be sure to do so outside the nesting season, which is different for each species.



American Kestrel

Dimensions: 17.37"x9.62"x11.25"

Entrance Size: 3"x4"

Height From Ground: 10-30° Space Between Boxes: .5 Miles

Orientation: South/East Habitat: Grassland, Open

Woodland Attach To: Pole

Barred Owl

Dimensions: 23"x13"x13"

Entrance Size: 7"

Height From Ground: 12-15' Space Between Boxes: .5

Miles

Orientation: Anv **Habitat:** Forest

Attach To: Live Tree. Pole



Chimney Swift

Dimensions: 8-12'x2.5'x2.5'

Entrance Size: 11.2"

Height From Ground: 8-12' Space Between Boxes: n/a

Orientation: Upwards

Habitat: Grassland, Town, Open Habitat: Grassland, Open

Woodland

Attach To: Building or Freestanding Tower



Barn Owl

Dimensions: 16"x12.37"x22.75" Entrance Size: 4.5"x3.75" **Height From Ground: 8-25** Space Between Boxes: 100'

Orientation: Any

Woodland

Attach To: Building, Pole, Silo



Purple Martin

Dimensions: 6"-12" Entrance Size: 2.12"

Height From Ground: 10-20' Space Between Boxes: 10' **Orientation:** South/West Habitat: Wetlands. Ponds.

Grasslands, Urban Attach To: Pole



