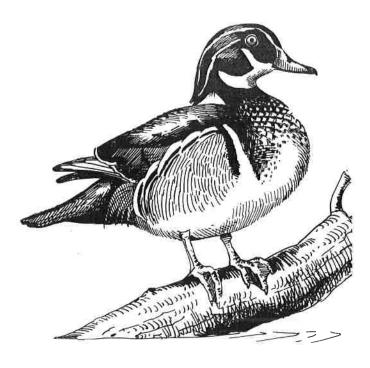
WOOD DUCK



by Chuck Fergus

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The wood duck is our most brilliantly colored duck. Its scientific name, Aix sponsa, can be loosely translated as "a waterfowl in wedding dress." This shy, retiring bird inhabits ponds and sluggish streams surrounded by woodlands. Nicknames include Carolina duck, squealer, summer duck and woodie. Most authorities place the species with the dabbling ducks, a group distinguished by its habit of feeding on and near the surface of shallow waters, rather than diving for food.

Wood ducks range from the Mississippi River east to the Atlantic coast, and from the Great Lakes Region south to the Gulf of Mexico. Most of them winter from the Carolinas south to the Gulf and west to eastern Texas. A small population of wood ducks also inhabits the Pacific Northwest. In Pennsylvania, woodies are common migrants in March and April; summer breeding residents; common migrants in September, October, and early November; and occasional winter residents in the southeast and southwest corners of the state.

Biology

An adult wood duck is 18-20 inches long, has a 24-inch wingspan, and weighs 1½ pounds. The male is called a drake, the female a hen. The drake's coloration is nothing short of exotic. His head is iridescent green, shading into blue and purple, with a slicked-back crest of feathers and a white chin-bib. His eyes are bright red, his bill reddishorange, his legs yellow. His chest, a rich chestnut, is separated from his golden-yellow sides by vertical bars of white and black. The hen's plumage is drab, a combination of gray, white, and brown. She has a small head crest and a circle of white surrounding each eye.

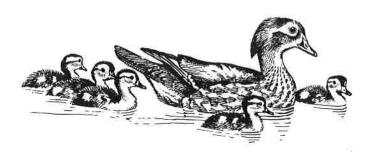
Wood ducks do not quack. The hen, more vocal and louder than her mate, squeals a shrill warning call, hoo-eek hoo-eek. The drake whistles an ascending, finch-like twee twee. Woodies are excellent swimmers and fast, agile fliers. Above open terrain they can wing along at up to 45-50 mph; in woodlands they twist and turn between the trees, moving their heads almost constantly in flight.

The wood duck feeds along shores of woodland streams and ponds. A dabbler, it tips its head into shallow water and probes the bottom for vegetative parts and seeds of pondweeds, wild rice, and water lilies. It also eats grapes, berries, and nuts — acorns, hickory nuts, and beechnuts — which are swallowed whole and crushed, inside the gizzard, into digestible bits. Insects and spiders comprise about 10 percent of the adult's diet, while the duckling eats a larger percentage of these high-protein animal foods. In winter, wood ducks may turn to waste corn if natural foods are scarce.

Breeding occurs in late March and April, extending into May in the north. Most pairs form on the wintering range, following an intense courtship. The male preens behind his wings, spreading them to show off their iridescent sheen, he tucks in his chin, erects his crest, and fans his tail. He swims at the hen, then circles her.

When the birds migrate north, the hen homes in on last year's nest tree, or, if she is a yearling, on the same general locale in which she was hatched. The male sets up no actual territorial boundaries, but will defend his mate from the attentions of other males. Several breeding pairs may share the same pond. Nesting concentrations are largely determined by the availability of nest sites.

The mated hen seeks out a cavity in a tree; the male follows her on these search flights, but the hen apparently picks the exact spot. Wood ducks prefer to nest in trees standing over water, but sometimes will settle for sites up to a mile away. They normally use natural cavities with entrances too small for raccoons to enter, often choosing excavations made by pileated woodpeckers. They also nest readily in man-made boxes.



The hen lays 8-15 eggs (one per day) in the bottom of the cavity, on accumulated wood chips covered with down from her breast. The eggs are dull-white in color and unmarked. Incubation, by the female alone, starts with the last egg and takes about a month. Unlike most other male ducks, the drake woodie stays with his mate well into her incubation. He has usually left the scene, though, by the time the eggs hatch.

All the eggs hatch on the same day. The hen usually keeps her brood in the nest overnight, and then in the morning she flies out and lands on the ground or water below where she begins calling softly. The day-old ducklings leap out of the nest to join her. They tumble down perhaps 60 feet, sailing like cotton puffs and usually landing unharmed. The hen leads them to safety along a lake or a stream.

If a raccoon, snake, or squirrel destroys her first clutch, the female may lay a second. A few hens raise two broods, but the vast majority raise only one.

Ducklings — and adults — are preyed upon by minks, otters, raccoons, hawks, and owls. In Maryland, scientists found that half of the young were killed in their first month. The brood begins to break up after 6 weeks or so, and the young can fly when two months old.

After leaving his incubating mate, the drake woodie joins other male wood ducks in the dense cover of a swamp or wooded pond. Here he molts into eclipse plumage: dull feathers resembling the drab plumage of a hen. During part of the annual summer molt, wood ducks — both drakes and, later, hens — lose their wing feathers and cannot fly. In

late summer or early fall, a second molt begins, restoring the normal plumages.

Wood ducks migrate south for the winter. Some seek out common roosting and feeding sites, grouping in flocks of less than a hundred to several thousand.

Population

In the early 1900s, the wood duck was nearing extinction. Many woodland ponds, the species' favorite habitat, had been drained. Widespread logging had removed the mature trees needed for nesting. And for years the woodie had been hunted hard for its good-tasting flesh.

In 1918, the United States and Canada signed a treaty setting hunting limits for migratory birds. Conservation officials quickly banned wood duck hunting. Game departments built thousands of nest boxes for the woodie and erected them in remaining habitat.

The wood duck population grew steadily. In 1941, hunting was again permitted. In 1976, waterfowl scientist Frank Bellrose reviewed many local studies and concluded that the adult population of wood ducks is about 1½ million before each year's breeding. Others have estimated the annual post breeding population at 2½-3½ million.

Today the wood duck has reclaimed most of the Atlantic Flyway and a large part of the Mississippi drainage. The greatest concentration of woodies lies in Ontario.

Habitat

Wood ducks inhabit slow-moving creeks, woodland ponds, lakes, swamps, marshes, and beaver ponds. They rest in thick growths of water lilies, smartweeds, and other emergent plants; hens hide their ducklings in vegetation, under overhanging banks, and among fallen, partly submerged trees.

Woodies nest in cavities of mature sycamore, maple, oak, basswood, elm, and gum trees. Where big trees are scarce, they will use man-made nest houses. Artificial nests should be made predator-proof, as they attract raccoons, squirrels and other predators looking for a meal. Place nest boxes on poles over water; attach metal shields partway up the poles, and make sure the boxes' entrances are small enough to exclude raccoons. Wood duck boxes also provide nesting space for American kestrels, coomon screech owls, mergansers, squirrels and, occasionally, wrens and tree swallows. Plans for the boxes are available from: Pennsylvania Game Commission, Dept. AR, P.O. Box 1567, Harrisburg, PA 17105-1567.

This Wildlife Note is available from the Division of Information and Education, Pennsylvania Game Commission, P.O. Box 1567, Harrisburg, PA 17120

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