Northern Bobwhite

Colinus virginianus

Most people know the Northern bobwhite by the name bobwhite quail, or just quail for short. Partridge is the old fashion name. The males whistle a clear, loud mating call in late spring and summer. The calls, as frequent as 2–3 per minute, sound like the bird is whistling “bob-white.”

Description

Quail are related to turkeys and chickens, and to some people, they look like a small, plump chicken. They walk upright on short legs, with a pushed out chest. Males and females can be distinguished by the feather coloration on the head. The male has a white patch under his neck and a white line that runs above his eye. On the female, those feathers are light brown. The body feathers of both sexes are a beautiful but subtle combination of brown and black and buff and white. Their coloring provides effective camouflage.

History and Status

Before the arrival of Europeans in this country, bobwhites were probably most numerous in fields and woods burned frequently by Native Americans. Europeans cleared additional forests for fields and pastures. Quail thrived on North Carolina farms through the 1950s and 1960s. However, by the mid 1980s, biologists recognized the birds were declining as former fields reverted to forests, and urban development converted old farms to new subdivisions. Quail remain common in portions of North Carolina, but not at their former numbers.

Habitat and Habits

Quail live on the ground, both day and night. At night, they hide under weeds and bushes. By day, they walk about, pecking for seeds and fruit and insects. When danger approaches, such as a fox or snake, they freeze in place and let the predator pass, or they try to out-run it; but if need be, they leap into flight. Wing beats are fast, furious, and loud—a quail unexpectedly taking flight from under foot is startling. An average flight lasts 5 seconds and covers 150 feet, after which the bird returns to ground.

Bobwhites do best in weedy fields and meadows, clear cuts and open woods dense with native grasses. They do poorly in towns, in dense forests, and in cattle pastures planted with fescue, Bermuda, or bahia grass.

Quail nest 1-3 times per summer, laying on average 12-14 eggs per clutch. Nests are hidden under weeds or grass clumps. The hen may incubate the eggs herself and raise the young, but this job may also be done by the male; in

Range and Distribution

Bobwhites occur in eastern North America, from southern Canada to Mexico. In North Carolina, they are most plentiful in the eastern portion of the state and spotty but widespread in the Piedmont (found commonly near clear cuts and farm fields.) But anywhere suitable habitat exists, quail are abundant—even in the mountains.

Range Map

Northern bobwhites are found statewide.
which case, the female is free to find another male for a new nest. Incubation lasts 23 days. Hatchlings weigh ¼ ounce, yet they are able to walk and follow their parent within an hour of hatching. They look like walking, downy fuzz balls. They first fly when 2 weeks old and reach adult size in 3–4 months. During the breeding season, quail live alone or with their chicks. But once breeding is over, generally by September, quail unite into small flocks with 3-20 members. We call the flocks “coveys”. Membership in the covey is not fixed and some individuals move from covey to covey. A covey roosts at night with members in a circle, shoulder to shoulder, facing outwards towards danger. Coveys communicate with other coveys using a special whistle call. The covey call is given at about 15 minutes before daylight. Great habitat supports about one bird/acre, and from a well-positioned listening spot, a person can sometimes distinguish 10 coveys speaking to each other in the predawn hour. Quail live short lives: fewer than 20 percent live to be a year old. A three year old quail is well past middle age, and a 5-year-old quail is truly ancient. Predation is the leading cause of death. Cooper’s hawks relish the big breasted adults. Even the eggs are sought after by predators. Large rat snakes can swallow every egg in a nest, and the parent quail too, if caught by the snake. Quail are highly productive breeders, which is nature’s way of handling the high predation.

People Interactions

Bobwhites are classified as a game bird in North Carolina. Cooked quail have excellent flavor, and are delicacies at the dinner table. The hunting season begins in October and ends in February. A typical hunt lasts about 4 hours, during which 2 coveys are found, and 2 quail are bagged. Quail are hunted with a bird dog. The dog travels ahead of the hunter, and upon finding a covey, it freezes in place, telling the hunter, “Here they are!” When the hunter approaches, the birds explode into flight, and the hunter shoots with a shotgun. Landowners can manage their property to increase quail populations, if not for hunting, then just for the pleasure of seeing the birds, and especially, hearing the male whistle “bobwhite.” The call means that summer is here and all that comes with it—tomato sandwiches, blackberry cobbler, watermelon. The call promises quail hunters memorable days a field in the company of hard working bird dogs. To many Southerners, quail are the south’s greatest bird, and hearing “bobwhite” is a comforting sound reminiscent of home and tradition.

Wild Facts

Classification
Class: Bird
Order: Galliformes

Average Size
Length: 10 in.
Wingspan: 9-11 in.
Weight: 5-8 oz.

Food
Small seeds, fruit, tender leaves and insects.

Breeding
1-3 clutches per year with 12-14 eggs per clutch. Predators destroy about ½ of the nests.

Behavior
Do not migrate. Live in small flocks called coveys.

Life Expectancy
Maximum of 5 years; 80% die before they are 12-months old; most deaths due to predation.
Q&A

1. Why have Northern bobwhite quail populations declined in North Carolina?

Quail were extremely common in North Carolina through the 1950s and 1960s. However, by the mid-1980s, the birds began to decline as former fields (habitat) reverted to forests and urban development converted old farms to new subdivisions. Quail remain common in portions of North Carolina, but not at their former numbers.

2. Where do bobwhites live?

Many birds live in trees, but not quail. They live on the ground. At night, they roost on the ground, hidden in a shrub thicket. They walk about during the day, pecking for seeds, fruit and insects. When predators approach, they may freeze in place, outrun the predator, or explode in flight. Flights are short, both in time (about five seconds) and distance (150 feet).

3. What kind of habitat is best for bobwhite?

Bobwhite do best in weedy fields and meadows. They also thrive in clear cuts and open woods where plenty of sunlight hits the ground and lush stands of wildflowers, native grasses and shrubs grow. The plants offer protection from predators. The best quail habitat is rich with food sources, thick enough to hide the birds, yet easy for them to travel under.

Links