



Natural Heritage  
& Endangered Species  
Program

Commonwealth of Massachusetts  
Division of Fisheries & Wildlife  
Route 135  
Westborough, MA 01581  
Phone: (508) 389-6360 Fax: (508) 389-7891  
[www.nhesp.org](http://www.nhesp.org)

## Peregrine Falcon

*Falco peregrinus*

State Status: **Endangered**

Federal Status: None

**DESCRIPTION:** The Peregrine Falcon is the fastest bird on earth, capable of diving from great heights at speeds of up to 200 miles per hour. It is a beautiful raptor with long, pointed wings and a long, slightly rounded tail. Adults have a bluish-gray to slate-gray backside and a buffy white underside interspersed with black. Adults also possess a black crown, black moustache-like markings or “sideburns”, a white throat, a dark bill with a prominent yellow fleshy base (or cere), and yellow legs and feet. Immature Peregrines have a brown backside and heavily streaked underside. Peregrines are medium-size falcons; males are slightly smaller than a crow 0.4 to 0.45 m (15 to 18 inches) in length with a wingspan of 0.9 to 1.1 m (35 to 42 inches), while females are slightly larger than a crow, reaching a length of 0.45 to 0.5 m (18 to 20 inches) with a wingspan of 1.1 to 1.2 m (42 to 48 inches).



*Illustration by Frank Taylor, from the  
Raptor Research and Rehabilitation  
Program pamphlet 1988*

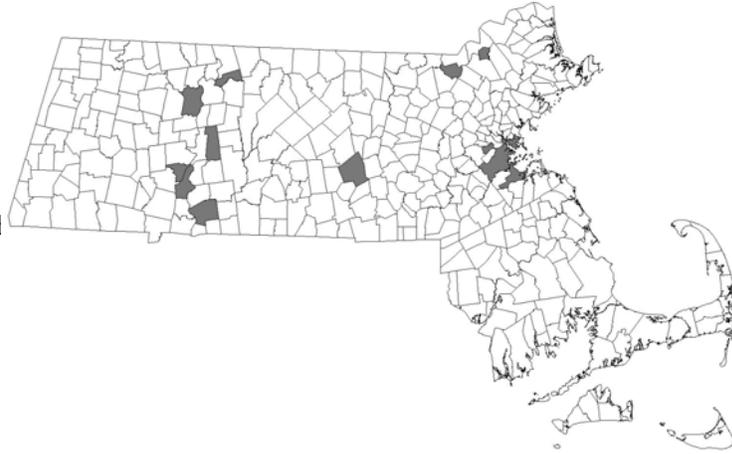
**SIMILAR SPECIES IN MASSACHUSETTS:** Most incorrect reports turn out to be Cooper’s Hawks which are in the group of raptors (birds of prey) called Acciptors. Birds in this group have long tails and short-rounded wings for dodging through the maze of branches in forest habitats. The confusion comes from their being very similar in size to the Peregrine Falcon, and from the fact that adults have a blue-gray back which is very similar to the Peregrine. Cooper’s Hawks frequently take songbirds from backyard feeders, so they are often seen at close range in suburban yards. Peregrine Falcons would almost never be seen in these areas.

In the fall and winter, especially along the coast, smaller Merlins and larger Gyrfalcons may be confused with Peregrine Falcons.

**HABITAT IN MASSACHUSETTS:** Peregrine Falcons in Massachusetts utilize artificial nesting platforms high up on tall buildings in heavily urbanized areas (Amherst, Boston, Fall River, Lawrence, Lowell, Springfield, and Worcester). Historical Peregrine nesting sites (eyries) within Massachusetts were located on rocky cliffs. Of the 14 historical cliff nest sites, Peregrines currently nest on Mount Tom and Mount Sugarloaf in the Connecticut River Valley. In general, Peregrine falcons prefer to nest on cliffs or man-made structures overlooking a body of water. Other man-made structures utilized for nesting in Massachusetts include the Braga Bridge (I-195) in Fall River, the Goliath Crane in the Quincy Shipyard, and the control tower at Logan Airport.

**RANGE:** The Peregrine Falcon is one of the most widely distributed birds in the world, inhabiting every continent except Antarctica.

Nesting Distribution in Massachusetts  
1987-2007  
Based on records in Natural Heritage Data



**LIFE CYCLE/BEHAVIOR:**

Most Peregrine Falcons first nest at 2 or 3 years old, but a few (particularly males) will breed as one-year-old birds when they are still in their juvenile plumage. Once established, the adults will remain in the same territory year-round. Adults generally live about 10 years. The longest known life span of a Peregrine Falcon in Massachusetts was achieved by the second male to occupy the Customs House tower territory in downtown Boston. This bird lived to be 17 years old and raised 50 chicks. Although this pair nested on the Customs House in most years, they also nested on the MacCormack Post Office and Courthouse Building in Post Office Square and in the 32<sup>nd</sup> floor balcony garden of the Federal Reserve Bank. This illustrates the species' tendency to nest in the same spot year after year, but to occupy alternate nest sites within their territory in some years.

By March 1<sup>st</sup> the adult pair has chosen their nest site for the season and are spending a lot of time in and around the nest site. Four, and rarely 5, eggs are laid around the beginning of April and the chicks hatch in early May after a 28 day incubation. The chicks fledge (leave the nest) at about 7 weeks of age in mid-June and become independent of their parents by the beginning of August. In their first fall and winter most of the young falcons disperse to other areas of Massachusetts, particularly along the coast, while others disperse throughout the Northeastern states where they will eventually nest. A very small number of young birds will migrate as far south as Florida, but will return to the Northeast again in the spring and never migrate south again. Peregrine Falcons that nest at high latitudes in Greenland and Labrador migrate every winter, going as far south as South America.

Peregrines are specially adapted to capture birds in flight. Their best known hunting strategy is to soar up high over their territory and wait for a bird to fly past far below. Once a target has been chosen, they do several strong wing beats to pick up speed and drop straight down into a controlled dive called a stoop. It is during this maneuver that they can attain speeds of at least 185 miles per hour and approaching 200 miles per hour by some reports. The small bird flying below does not usually even know that it has been targeted. The Peregrine will strike its prey

hard enough to kill it and streak right past. The falcon then pulls out of its dive and catches the falling prey. It is a spectacular scene to watch and is what has made the Peregrine Falcon so prized in falconry since medieval times.

In Massachusetts, the most frequent prey species are Blue Jay, European Starling and Rock Dove (pigeon). Other common prey species include: Red-winged Blackbird, Common Grackle, American Robin, Mourning Dove, Common Flicker, Chimney Swift, House Finch, Cedar Waxwing, and Woodcock.

**POPULATION STATUS:** In the 1930s and 1940s there were probably about 375 nesting pairs east of the Mississippi River in the United States. Fourteen pairs nested on cliffs in Massachusetts. In 1948 the Massachusetts State Ornithologist, Archie Hagar, discovered that the pair nesting on Rattlesnake Ledge on the western shore of the Prescott Peninsula on the newly created Quabbin Reservoir had broken their eggs for no apparent reason. This observation was the first indication of the affects of the pesticide DDT. Intended for the control of agricultural insect pests, this pesticide passed up the food chain from insects through song birds to Peregrine Falcons, and other predatory species, where it became concentrated. The most significant impact to the falcons was that they laid thin-shelled eggs that broke under the weight of incubation, leaving no young to replace the adults when they eventually died. By 1966, not a single nesting pair remained in the eastern United States. The last historically active nest in Massachusetts was on Monument Mountain in Great Barrington in 1955.

With the ban of DDT in the U.S. in 1972, the stage was set for restoration efforts to begin. The Peregrine Fund, a non-profit organization originally based at Cornell University in New York, began to captive breed and release young Peregrine Falcon chicks. Two of the earliest release sites were on a tower at Mass Audubon's Drumlin Farm in Lincoln (1975) and on the cliffs of Mount Tom in Holyoke (1976-1979). Unfortunately, none of these birds survived to breed. With the creation of the "Nongame and Endangered Species Program" in 1983, funded largely by voluntary donations on the state income tax form, Peregrine Falcon restoration became the Program's first new project. Young falcons were released on the roof of the McCormack Post Office and Court House Building in downtown Boston in 1984 and 1985. This effort led to the first modern Massachusetts nest in 1987.

Eventually, more than 6,000 captive-born Peregrine Falcon chicks were released across the country by several organizations. The number of nesting pairs continued to grow to the point that on August 25, 1999 the Peregrine Falcon was officially removed from the federal list of Endangered and Threatened Species, having skipped the status of Threatened. Recent surveys have documented over 2,000 nesting pairs in the U.S. (2002), over 400 in Canada (2002) and about 170 in Mexico (1995). In Massachusetts, there were 14 known territorial pairs in 2007. This was the first year that the numbers of pairs had returned to their pre-DDT levels.