

Marten

The American **marten** (*Martes americana*) is a carnivorous, furbearing member of the weasel family. Although similar in color, size, and shape to mink, martens are usually found in the uplands while mink are more associated with streams and coastal areas. In Southeast Alaska, martens naturally occurred on only the mainland and a few adjacent islands. Subsequently, martens were transplanted to the remainder of the larger islands. Through recent studies, the martens on Admiralty and Kuiu islands appear to belong to a unique genetic type which some believe is a separate species (Pacific marten *Martes caurina*). American martens are found from Southeast Alaska all the way up to the northern and western portions of the state where the last trees disappear and the true arctic tundra begins.

General description: The marten's coat is characterized by soft, dense fur which varies in color from pale yellow to dark brown, often shading to black on the feet and legs. Lighter-colored martens tend to have grayish brown tails, while darker animals have dark brown tail fur. The fur around the muzzle varies from gray to light brown with a short dark line extending up the forehead from the corner of each eye. The marten's throat and upper chest are usually pale or buff or deep orange. The ears are erect and rounded. Martens vary in body length from 19 to 25 inches (48-65 cm), not including the tail. They may weigh up to nearly 4 pounds (1.8 kg). Males are considerably larger than females. The tail accounts for nearly a third of the marten's total length. Martens have sharp, non-retractable claws which they use for climbing as well as for holding their prey. Large furry paws allow the marten to travel easily over deep snow.



Life history: Martens are rather solitary creatures except during the mating season. Mating encounters are temporary and males may mate with multiple females which live within their home ranges. Mating occurs in July and August. Fertilization is followed by a period of delayed implantation, during which the fertilized eggs do not develop beyond the multi-cellular blastocyst stage. After six months the blastocysts implant in the uterus and embryos begin to develop, growing rapidly for about 27 days. The litter, averaging three young, is born in April or May.

Young martens are highly dependent at birth and weigh only about 1 ounce (28 gm). Sparsely covered with fine, yellowish hair, their eyes do not open until they are 5 to 6 weeks of age. Under their mother's care, young martens grow rapidly. By late summer they can forage for themselves and become independent. Juvenile martens usually disperse from their mother's territory during the autumn. Martens normally mate for the first time when they are 2 years old and bear young in their third year. Some females may breed at 15 months.

Males typically have larger home ranges than females. Within sexes, home ranges are exclusive with little overlap. Home ranges of martens vary in size in response to population levels and food availability. Although 1 square mile may be sufficient for a male when food is abundant; 15 square miles may be required when food is scarce. When food is in very short supply, martens may leave their regular home range areas entirely and travel extensively to find food. Young begin to disperse in late summer, looking for vacant space to establish a home range. While hunting for food, martens cross their home range areas frequently seeking areas with small mammals and resting sites. When crossing open swamps, lakes, or bogs, martens use every tree for cover, perhaps for protection from large carnivores and birds of prey. In Southeast Alaska, martens select cavities in large, old-growth trees for denning and resting.

Martens are very courageous, but when pressed closely in open areas they may burrow into loose snow and tunnel for long distances beneath the surface. If snow conditions prohibit burrowing, martens will climb the nearest tree to avoid capture. When all else fails, martens will stand and fight.

Food habits: Martens depend heavily on meadow voles and red-backed voles or mice, which are their primary food source over much of Alaska. Fluctuations in food availability often create corresponding variations in marten populations. This condition is more pronounced in the less optimum habitat of the marten. Probably the second most critical food source is berries, especially blueberries, followed by small birds, eggs, and vegetation. The marten is a voracious and opportunistic feeder. Carrion such as the remains of wolf kills or salmon carcasses are eaten in many areas. Wild martens are fond of sweets such as jam. They will sometimes take treats from humans. It has been reported that red squirrels are a major food source for martens, but this does not seem to be the case in Alaska. In fact, the two seem to get along quite well. Martens commonly use red squirrel middens as resting places. Although martens are suited for nocturnal foraging, they are also active during mornings and evenings, especially during the long days of summer.

Management: Martens are widespread and abundant in Alaska. Overharvest is not a management problem in most areas because of the amount of refugia, or inaccessible areas. Season lengths are set to reduce the opportunity for overexploitation. Extensive roading and habitat loss resulting from logging is a concern in some areas. Contrary to popular belief, wildfires can produce good habitat for martens by enhancing habitat for small rodents and providing log debris for cover and denning.

The marten or American sable is Alaska's most widely trapped animal and at current prices brings into the state an estimated \$1-2 million each year. A trapper may take from 100 to 400 martens per season, but most average 20 to 30.

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