

Life of the Mountain Lion

Appearance

Mountain lions are graceful and majestic animals known for their strength and agility. The image to the right shows the color and physical attributes of adults and kittens, and the chart below compares the size differences between adult males and females. Their scientific name, *Puma concolor*, means cat of one color, yet adult mountain lions are usually tawny or tan, or slightly reddish in color with black-tipped ears and tail. Their coat patterning varies with age.

	Adult Males	Adult Females
Shoulder Height	30 in. (76 cm)	24 in. (61 cm)
Length*	7-8 ft. (2.1-2.4 m)	5.5-6 ft. (1.6-1.8 m)
Weight	120-160+ lbs. (54-72+ kg)	85-115 lbs. (38-52 kg)

*Length is measured from nose to tip of tail.

Reproduction

Mountain lions will mate with many other lions during a breeding period. Breeding pairs may spend an average of 2 to 3 days together. Mountain lions are unusual among carnivores because they give birth at any time of year. While adult males play no role in the rearing of kittens, they may feed on a carcass with the female and his offspring.

Females can have their first litter at 2 1/2 to 3 years of age, and breed every 2 years thereafter. The gestation period is 3 months. Females move their nursing kittens frequently to new den sites for protection and to improve access to prey. The social bond is critical to the kittens' well-being. If the mother dies before the kittens reach 6 months of age, they have little to no chance of surviving.



Communication

Mountain lions communicate through visual, scent, and posturing signals, and through vocalizations such as low guttural growls, chirping, whistling, spitting, yowling, snarling, and hissing. Nursing kittens emit high-pitched, birdlike chirps and meows. Older kittens may also chirp to communicate with siblings or their mother. Mountain lions purr when together, but they cannot roar.

The most spectacular sound a mountain lion can make is a caterwaul, an eerie sound resembling a human cry or scream. Females caterwaul during mating season, especially when males are competing for the same receptive female.

Distribution & Range

Mountain lions have the largest geographic range of any native land mammal in the Western Hemisphere. They occur from British Columbia in Canada, the Western United States, and throughout Central and South America to the southern tip of Chile.

California has more lion habitat than any other state, and more than half of the state is prime mountain lion habitat. They can be found wherever deer are present including forests, wetlands, riparian areas, and deserts. They can also be found in terrain ranging from grassy valleys and rolling oak woodlands to rugged mountains.

A male mountain lion's territory averages 100 to 200 square miles and typically encompasses all or part of the home ranges of multiple females. In California, female mountain lion ranges are usually 30 to 70 square miles in size. Depending on the location, there are typically fewer than 2 mountain lions per 100 square miles of suitable habitat.

The First Year



92-day Gestation to Birth

1 to 4 kittens are born, fully furred, spotted, and weighing just over a pound at birth.



2 Weeks Old

Eyes and ears open. Mother leaves for short periods of time to hunt.



6 to 8 Weeks Old

As kittens grow, they accompany their mother on hunts.



6 to 12 Months

Juveniles become more independent. Spots continue to fade. They disperse at about 16 months to establish their own territories.

Simply seeing a mountain lion does not mean it is a threat.

Mountain lion attacks on humans are extremely rare. They are very good at avoiding people, and generally behave indifferently toward us.



Mountain Lion Safety Tips

Consider these recommended precautions while living or recreating in mountain lion country:

Home, Pet, and Livestock Safety

Home Safety

- ▶ **Don't feed deer, other wildlife, or feral cats** which can attract mountain lions.
- ▶ **Landscape around your home for safety.**
 - Prune shrubs and trees around the base to keep mountain lions from using them as hiding spots.
 - Do not landscape with plants that are desirable to deer. Deer can attract mountain lions to your yard.
 - Install lighting to illuminate walkways at night. Lighting alone will not deter a lion, but it will allow you to see your surroundings.
 - Install tall deer-proof fencing to prevent deer from entering your property.
- ▶ **Seal off open spaces under buildings and porches** to keep mountain lions and other wildlife from using as shelter.
- ▶ **Do not make food, water, or shelter available near your home.**
 - Mountain lions use vegetated areas to move through populated areas into more remote habitat. If food, water, and shelter are not available mountain lions generally move on quickly.
- ▶ **Keep garbage cans tightly sealed and compost secured.**
- ▶ **Supervise small children outdoors especially during the hours around dawn and dusk** when mountain lions are most active.

Pet Safety

- ▶ **Keep dogs and cats indoors**, especially after dusk and before dawn, to prevent them from becoming prey for mountain lions and other wild animals.
- ▶ **Keep pet food indoors.** If you feed animals outside, gather up the food and water bowls and clean up spilled food so as not to attract wild animals.
- ▶ **Install a fully secure, roofed kennel** if you must keep pets outside.

Livestock Safety

- ▶ **Confine livestock** such as sheep, goats, llamas, pigs, chickens, and other fowl in completely secured and covered enclosures, particularly at night.
- ▶ **Use specially trained livestock guard animals** if you have a large herd in a relatively remote area.
- ▶ **Install an electric fence** around areas where livestock or domestic animals are kept.

Encourage your neighbors to follow these simple precautions. Prevention is far better than a possible mountain lion confrontation.

Safety When Recreating

Hiking & Camping

- ▶ **Hike in pairs or groups.**
- ▶ **Keep small children close**, preferably within a few feet alongside you.
- ▶ **Keep bear spray accessible and review directions on its use.**
- ▶ **Make enough noise to avoid surprising wildlife**, especially at bends in the trail. Whistles work well.
- ▶ **Do not approach dead animals**, especially deer or elk; they could be mountain lion prey left for a later meal.
- ▶ **Keep your camp clean** and store food and garbage in double plastic bags away from sleeping areas.

Mountain Biking

- ▶ **Ride with a partner** or in a small group, and wear a helmet.
- ▶ **Use a bell or make noise** as you go along the trail.

Running

- ▶ **Avoid running alone in mountain lion country**, but especially not at dawn, dusk, or after dark.
- ▶ **Avoid running with headphones or earbuds** that can block out sounds around you.
- ▶ **Make noise as you go along trails.**

If You Encounter a Mountain Lion

- ▶ **Do not run.** Running or rapid movements may trigger an attack.
- ▶ **Stay together in one group.**
- ▶ **Never approach the mountain lion or offer it food.**
- ▶ **Pick up small children and place them on your shoulders.**
- ▶ **Face the mountain lion.** Talk to it firmly and hold your ground while slowly backing away.
- ▶ **Try to appear larger than the mountain lion.** Get above it (e.g., step up onto a rock or stump). If wearing a jacket, hold it open to increase your apparent size. If you are in a group, stand shoulder-to-shoulder to appear intimidating.
- ▶ **Always leave the animal an escape route**, even if it means stepping aside so the mountain lion can move past you. Do not expect the mountain lion to turn and walk away.
- ▶ **If the mountain lion does not leave, be more assertive.** If it crouches and lays back its ears, bares its teeth, hissing, tail twitching, and hind feet pumping in preparation to jump, then it is time to shout, wave your arms and throw anything you have available directly at the lion (water bottle, book, backpack) at the animal.
- ▶ **If the mountain lion attacks, fight back.** Be aggressive and stay on your feet. Spraying bear spray (EPA approved) in the mountain lion's face is also effective. Attack victims have fought back successfully with rocks, sticks, garden tools, even an ink pen, or bare hands. Try to stay on your feet. If knocked down, protect your head and neck.
- ▶ **Always give a mountain lion or mountain lion kittens plenty of room and leave the area as soon as possible.** Mountain lion kittens can look similar to domestic cats.

When in mountain lion country, consider carrying bear spray, keep it accessible, and know how to use it.

Be a good steward at home and in the wild. By taking steps to safely coexist with these remarkable animals you can help to ensure they remain an important part of California's natural landscape.



Important Mountain Lion Information

- ▶ If a mountain lion has attacked a person, call **911**
- ▶ Report wildlife sightings or incidents (including livestock losses) on the California Department of Fish and Wildlife (CDFW) online Wildlife Incident Reporting system:
<http://apps.wildlife.ca.gov/wir>
- ▶ Report a sick or injured mountain lion to CDFW:
Northern California 24-hour dispatch: **916-358-1312**
Southern California 24-hour dispatch: **951-443-2944**

For more information contact CDFW during normal business hours at: **916-322-8911**. You will be routed to the CDFW regional office for your county.

If you find a kitten in good condition, please do not touch and do not disturb it. If you find a kitten alone in poor condition or obvious distress, do not touch and instead report to your local CDFW Office.

For more information on mountain lion safety visit the CDFW website: wildlife.ca.gov/Keep-Me-Wild/Lion

California Laws Prohibit:

Mountain Lion Hunting

It is illegal to hunt mountain lions in the state of California. It is also illegal to import mountain lion carcasses into California, even if it is legal to hunt them in other states. (CDFW Fish and Game Code 4800)

Feeding Wildlife – Big Game

The feeding of big game animals is prohibited in California (CA Code of Regulations, Title 14, Section 251.3). Feeding deer and other wildlife may attract mountain lions to your property. It also disrupts natural animal behavior patterns, putting animals at risk for vehicle strikes, injury from other wildlife and disease.

To request additional brochures email: wildfutures.us@gmail.com



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California Mountain Lion



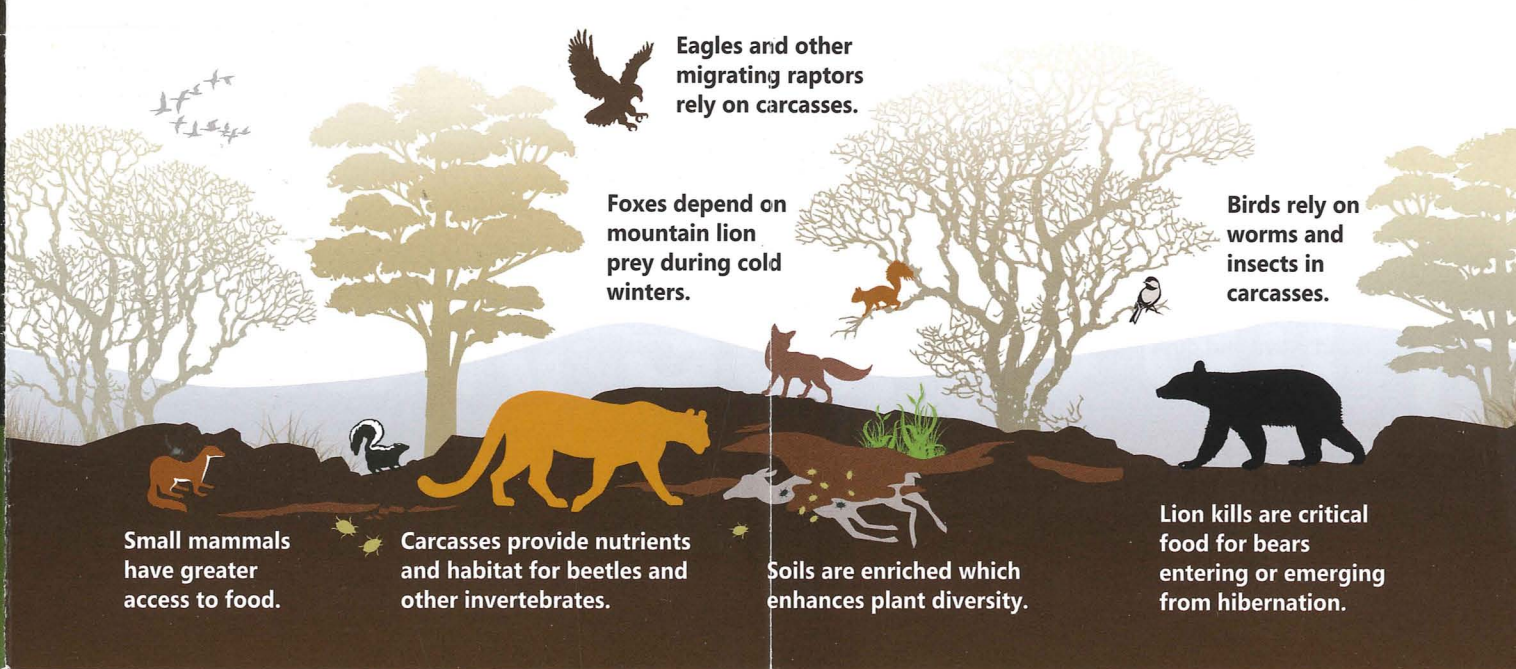
Learn about mountain lion ecology, behavior, signs, and safety tips.



California Mountain Lion

Mountain lions are also known as pumas, cougars, or panthers. Seeing a mountain lion in the wild can be a thrilling and memorable experience, but sightings are rare due to the lion's shy and elusive nature. To ensure a safe existence for both people and mountain lions, this brochure explains the ecology, behavior, ecosystem benefits, signs of the presence of mountain lions, and what to do in the event of an encounter. With a better understanding of their nature, people can safely coexist with mountain lions and help these animals remain an important part of California's landscape.

Mountain Lions Increase an Ecosystem's Health and Biodiversity



Frequently Asked Questions About Mountain Lions

How many mountain lions live in California?



It is difficult to accurately assess statewide mountain lion populations. From year to year, mountain lion populations may increase, decrease, or remain stable. However, research is underway to estimate populations and monitor their trends in order to try and answer this question.

Do mountain lions live alone or in groups?

Mountain lions have long been considered to be solitary, but recent research shows they can be quite social. Two mountain lions may be seen together usually for the purpose of mating or hunting. Kittens stay with their mother until they are 13 to 24 months old, and may appear to be as large as their mother, giving the impression of a group of adult mountain lions. Mountain lion mothers have even been known to adopt orphaned kittens, and occasionally share meals with other mountain lions. Siblings can remain together for a period of time after leaving their mother and striking out on their own.

Do mountain lions overpopulate?

No. Mountain lions need sufficient habitat and prey to survive. There are usually about 2 mountain lions per 100 square miles. Males are highly territorial and may kill one another for territory, food, or a mate. Kittens stay with their mother for up to 2 years, in litters of just 2 or 3, so reproduction rates are low. Today, populations are also reduced by habitat loss, fire, drought, poisons, pollution, road kills, disease, poaching, and depredation permits.

Does a mountain lion sighting mean there are more in the area?

No. An increase in mountain lion sightings does not necessarily mean that the local population has increased. Nor is presence around a neighborhood generally considered evidence of unusual behavior. Mountain lions can travel long distances, often 10 to 12 miles per day, and inhabit large geographic areas. Local mountain lions may periodically wander or travel through a neighborhood as they patrol their home ranges, and young mountain lions from elsewhere may pass through in search of an open territory. If you see a mountain lion in your neighborhood it doesn't mean it is residing there.

What do mountain lions eat?

Mountain lions are *obligate carnivores*, meaning they only eat meat. In California, they specialize primarily on *ungulates*, mostly deer. Occasionally mountain lions will eat elk, wild pigs, rabbits, raccoons, beavers, porcupines, rodents, bighorn sheep, coyotes, and many other wildlife species.



Do mountain lions reduce their prey populations?

Mountain lions co-evolved with their prey over millennia, and there is no evidence that predation by mountain lions limits prey populations. There are rare situations where mountain lions impact the growth of a prey population, particularly when prey numbers are already at critically low levels. However, the populations and availability of ungulate prey typically determines the abundance of mountain lions within a particular region. Other factors that more likely contribute to deer and elk declines in California include habitat loss, weather, road kills, and poaching.

Do mountain lions prey on pets and livestock?



Rarely. Weather, disease, coyotes, dogs, and birthing complications cause most livestock losses. Domestic sheep, goats, and chickens are far more vulnerable to mountain lion predation than are cattle and horses, and are more easily protected. Securing

backyard sheep, goats, llamas, pigs, chickens, and other fowl in predator proof enclosures from dusk to dawn will reduce livestock loss.

Will killing more mountain lions decrease conflicts with pets and livestock?

Generally, no. The death of a single mountain lion creates a vacant territory that other mountain lions will try to occupy. Killing adult mountain lions disrupts the social structure of a local population, creating a younger population with a higher percentage of males. Conflicts with people and livestock are more common with young male lions as they move into empty home ranges to survive. Thus, killing a mountain lion may result in a temporary increase in the number of local mountain lions, as well as an increase in livestock losses.

Do mountain lions pose a significant threat to public safety?

No. Mountain lion attacks on people are extremely rare. Mountain lions are timid and mostly avoid people. However, like any wildlife species, mountain lions can be unpredictable, therefore people who live, work, or recreate in mountain lion habitat should take precautions to reduce their risk, and know what to do if they encounter a mountain lion.



Mountain Lion Signs

You may never see a mountain lion in the wild, but you can find and interpret the signs a mountain lion leaves behind. Local conditions and the passage of time make accurate identification difficult even for expert trackers.

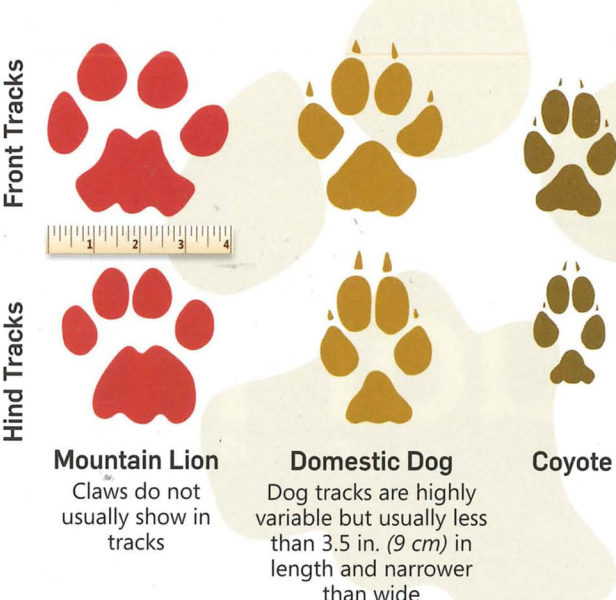
Tracks

Mountain lion tracks have 4 toes on both the front and hind paws with M-shaped heel pads that have 2 lobes at the top and 3 lobes at the base. Retractable claws do not show in the tracks of mountain lions except on slippery or difficult terrain where they need more traction or where they have sprinted after prey. A mountain lion carries its heavy tail in a wide U-shape at a normal walk, so the lower portion of its tail can leave drag marks behind in snow.



	Adult Males	Adult Females
Track Width	4–5 in. (9–13 cm)	< 3.5 in. (5–8 cm)
Heel Pad	> 2 in. (9–13 cm)	< 2 in. (4–6.5 cm)
Stride Length	> 40 in. (9–11.5 cm)	< 40 in. (4.5–7.5 cm)

Note: When observing tracks, recognize that considerable experience and additional indicators may be needed to make accurate conclusions about the species of the animal.



History and Legal Status

California settlers viewed the mountain lion as a threat to their livestock and livelihood. Lions were perceived as competitors for wild game and few pioneers understood their ecological value. From 1907-1963 bounty hunting programs were implemented and resulted in the killing of thousands of mountain lions. California voters passed Proposition 117 in 1990, which banned the hunting of mountain lions and established them as a "specially protected mammal." Today, a lion may still be killed by law enforcement or by any member of the public if it is threatening or attacking a person. If a mountain lion harms pets or livestock, the property owner may request a depredation permit from the California Department of Fish and Wildlife (CDFW) to take action to reduce possible future conflicts. For more information, visit: wildlife.ca.gov/Conservation/Mammals/Mountain-Lion

Ecosystem Benefits

Mountain lions inhabit much of California. They prey primarily on deer and their kills provide an important food source to many species, including other mammals, birds, reptiles, amphibians, and insects. Nutrients from carcasses enrich soils and benefit many plants. Because of this, the connections within and between diverse ecological communities are enhanced and strengthened when mountain lions are present.

Scats

Mountain lions generally cover their scats (feces) with loose soil. Scats tend to be dense and segmented, blunt at both ends, and 1 to 1.5 inches in diameter and 4 to 6 inches long (roughly the size of those left behind by a large dog). Scats may include hair, bones, and teeth from prey, and sometimes grass, but usually contain no fruit or other vegetation. Mountain lions leave their scats along trails, under overhangs, in caves, and near kills and scrapes. Smaller mountain lion scats may be similar in size and shape to those left by bobcats.



Scrapes

Mountain lions make scrapes to communicate their presence, attract a mate, avoid other lions, or define the edge of their territory. They make scrapes by using their hind feet to push up a mound of leaves, dirt, or other debris in conspicuous places, at junctions in canyons, and along trails and ridge lines. Occasionally mountain lions urinate or defecate on the scrape. Bobcats make similar, but smaller, scrapes.



Cache Sites

Mountain lions typically drag large kills to a secluded site so they can return and continue to feed over several days. This is known as a cache. You might see a drag mark near a fresh kill. Mountain lions often cover the prey with leaves, grasses, pine needles, or branches to hide it from scavengers and to prevent it from spoiling. Mountain lions may stay close to the cache site, so it is important not to approach or linger near a dead animal. If you come across a carcass in the middle of a trail or out in the open, it's very unlikely to be a mountain lion kill.



Learn more about mountain lions and safety on the inside poster. ▶