



Table of Contents

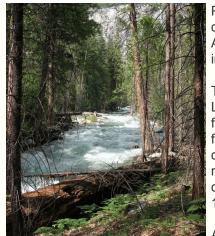
The Great American Outdoors Act
Wild Things in Your Woodlands
Quarantine of Another Sort
Natural Gas Drilling in Pennsylvania

Quick Links

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The Great American Outdoors Act





Perhaps lost in the noise of the current political wars is one encoura development. On August 4 President Trump signed into law The Gr American Outdoors Act, which enjoyed rare, enthusiastic bi-partisar in both the House and Senate.

The Act contains two main attributes. Through the National Park and Lands Legacy Restoration Fund it will allocate up to \$9 billion over to five years to fix deferred maintenance at national parks, wildlife refurencests, and other federal lands. There is now a \$12 billion backlog of deferred maintenance on all aspects of national parks infrastructure roads, trails, campgrounds, monuments, fire safety, utilities, and vis centers. Those parks have seen a 50 percent increase in attendance 1980, while the parks' budget remained virtually unchanged.

Also, the Act fully funds the Land and Water Conservation Fund, ori created in 1964, assuring \$900 million will be available each year, in perpetuity, to protect natural resou recreation areas. Historically, that fund has received less than half the authorized \$900 million. Those full support four main federal land programs—National Parks, National Forests, Fish and Wildlife, and Bure Land Management—and provides grants to state and local governments to acquire land for recreation a conservation.

The money allocated to fund this new law actually comes from federal revenue from offshore oil and gar operations.

Wild Things in Your Woodlands

Eastern Milk Snake

The Eastern Milk Snake (*Lampropeltis triangulum triangulum*) is a medium-sized, boldly-patterned snake with smooth scales and a small, blunt head that is distinct from its body. While there is a lot of color and pattern variation, milk snakes usually have a series of 30-47 large squarish blotches on top of their bodies, and a row of smaller, alternating blotches running along their sides. On adults, these blotches vary from reddish brown to a light or dark brown, bordered by a black line. Juveniles often bare bright reddish brown or orange blotches. The background coloration varies from beige to gray. The underside of the milk snake is a creamy white color, with black squarish markings that form a checkerboard-like pattern. Another way to identify milk snakes is by the "V", "U" or "Y" shaped blotch on the top of the head.

Adult milk snakes are generally between 24 to 52 inches in length, averaging around 33 inches for males and 30.75 inches for females.



Milk snakes are like the misunderstood teenagers of the snake family. While they are abundant through of the state, they can sometimes be secretive and often may not be seen out in the open. People often them for their more dangerous look-a-likes, and even their name is misleading. We hope we can clear upon the mystery surrounding milk snakes in this edition of "Wild Things in Your Woodlands."

The Eastern milk snake has a very broad range, reaching up to Quebec and Maine, westwards to easte Minnesota and southwards all the way to Alabama. The Eastern milk snake is actually one of 24 subspermilk snakes, a species that boasts the biggest range of any native snake in North America. Milk snakes nearly everywhere in the United States, except for the West Coast, and can be found as far south as Verand up north into Canada.

With such a broad range, it is unsurprising that milk snakes thrive in a wide variety of habitats. They inh deciduous forests, rocky hillsides, open fields and ecotones (areas of transition between two types of ecosystems). Eastern milk snakes commonly dwell in human habitats, such as farms and power-line rig way. Milk snakes are rarely encountered in the open, and the best way to find them is by searching und objects, like rocks, logs, boards, tin or other building debris.

People often find milk snakes hiding in barns, giving rise to the myth that these snakes were sucking on teats and "milking" the cows. Milk snakes are actually drawn to barns for their warmth and abundance c favorite foods: rodents! This makes milk snakes a highly beneficial species for farmers because they he control rodent and other pest populations.

In ecosystems, milk snakes are also important predators of small mammals, birds and other snakes. Th diet changes dramatically with age, where younger snakes feed mostly on other species of snakes (nor red-bellied snakes especially, but eastern garter snakes, northern ringnecked snakes, and northern wat also make the menu). On the other hand, adults feed almost exclusively on small mammals, amphibian and, on the rare occasion, birds. Milk snakes are constrictors, meaning that they coil themselves around prey and squeeze until the animal suffocates. After the prey is dead, the milk snake swallows its food w

Milk snakes are active from April to October, with peak activity in June. They are mainly nocturnal, but a occasionally out during the daytime when it is warm enough. They enter brumation (like hibernation) in hunkering down in shale banks, wells and under debris.

Milk snake mating season occurs from March to May. Since milk snakes are a solitary species, mating and hibernation are the only times milk snakes will be found with others. Sometimes snakes will mate v inside their winter den. Other times, females will exit their den and leave a pheromone trail behind for m follow. Once the male finds a female, he will sometimes mate for several hours to prevent other males f copulating with the ovulating female.

About thirty days later, the female selects a warm, humid nest site and lays her eggs. Nests can be fou variety of materials, including rotting wood, sawdust piles, rubbish heaps, loose soil and under rocks. The usually lays around 10 white, leathery eggs each slightly longer than an inch and a half (though clutch sort range from 5-24). After laying the eggs, the female is freed from her motherly duties, and leaves the egginculate.

Incubation varies from 49 to 61 days, and hatchlings first appear in mid-August. Using a special "egg to hatch out of their eggs, the baby milk snakes are about 9 to 10 inches long, and look like a smaller, mor colored version of the adults. The pattern of the eastern milk snake usually gets darker and duller with a young milk snakes are common prey, those that are able to avoid predation become fully grown within a years. This is not to say that adult snakes are free of predation, as raccoons, skunks, foxes and coyotes on milk snakes.

When threatened, milk snakes will shake their tails in an attempt to mimic a rattlesnake and scare the p away. The eastern milk snake does not actually have a rattle, but can create rattling noises from the shadry leaves and vibrations. In some areas, the coloration of milk snakes mimics that of copperheads or c snakes, both venomous species. Mimicking venomous snakes is a useful strategy to help avoid predations.

Unfortunately for milk snakes, this tactic often backfires when humans mistake them for a dangerous sp kill them. This species is by far one of the most confusing species of snake, since its rattling behavior of people into thinking they've encountered a rattlesnake. The eastern milk snake is also commonly confus copperhead because they have similar markings on their back. However, only the eastern milk snake his characteristic "Y" or "U" markings on the back of its head, and the copperhead also lacks the milk snake underbelly checkerboard pattern. Other species frequently confused with the eastern milk snake are juv black rat snakes, northern black racer and the northern water snake.

Even though they are commonly confused for dangerous species, the eastern milk snake is harmless a non-venomous. If an intruder approaches, they may vibrate their tail and strike a couple times, and they even bite if cornered or captured. Milk snakes may also release a musk or feces upon capture and hance Regardless, milk snakes pose no real issues for humans, and for anyone looking to rid their yard of rodes snakes make wonderful allies.

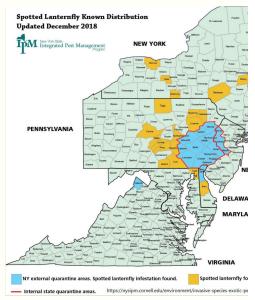
By Karen Ceballos and Kristi Sullivan

Quarantine of Another Sort

Curbing the Spread of the Spotted Lanternfly

Humans are not the only species experiencing the effects of quarantine to foil the expansion of a pernicious invader. Quarantining is also being encouraged to stop the spread of the Spotted Lanternfly into eastern counties of Pennsylvania. The insect had already made its way as far north as Luzerne County. At the same time as COVID was exploding in early March, the Pennsylvania Department of Agriculture added 14 counties to the south and east of Luzerne.

The insect was introduced from Asian countries and first spotted in Pennsylvania in 2014. Lanternflies lay egg masses on smooth bark, including willow, maple, poplar, sycamore, evergreen species, and a variety of fruit trees. Although prevalent on so many types of bark, the insects also lay eggs on brick, stone, and other vertical surfaces, including items stored outside in yards. They drain sap from stems and leaves that impacts the plants' ability to utilize photosynthesis. They also leave behind large amounts of fluid which allows mold to grow on the host. The secretions also attract wasps, hornets, bees, and ants.



If you spot masses of eggs on trees and other surfaces you are encouraged to scrape them off, dispose and take photos to send to the Pennsylvania Department of Agriculture, which is maintaining a survey c population spread. Visit this page to help track the invasion:

https://extension.psu.edu/have-you-seen-a-spotted-lanternfly

Egg Masses: September - May



Nymphs: April - October



Adults: July - November



Natural Gas Drilling in Pennsylvania

SHALE PLAY Natural Gas Drilling in Pennsylvania

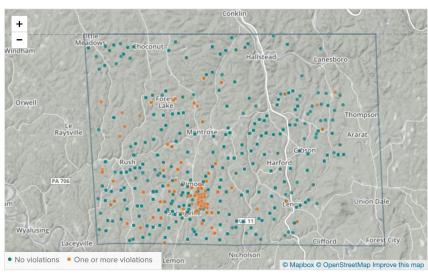
Susquehanna County

ACTIVE WELLS

1,079

VIOLATIONS

795



Click HERE to access this interactive map that shows details on these sites.

In case you missed it...

A two-year Pennsylvania grand jury investigation culminated in charges filed in June against the Cabot Gas Company for environmental crimes. "The grand jury presentments prove that Cabot took shortcuts the law and damaged our environment — harming our water supply and public health," Attorney Genera Shapiro announced. "They put their bottom line ahead of the health and safety of Pennsylvanians."

The jury determined that methane pollution in the water supply of Dimock township in northeastern Pen was not the result of naturally-occurring methane, but due to seepage from poorly constructed natural g The company had argued that the presence of methane was unrelated to their drilling activity.

But researchers now have much better tools to distinguish the significantly improved their ability to disting between naturally occurring methane and methane mobilized by drilling. The jury was persuaded that refrom local residents of gas surging from faucets in "violent blasts," as well as water set ablaze right out kitchen sink was inconsistent with natural causes.

Full disclosure: The E.L. Rose Conservancy receives periodic royalties from Cabot Oil and Gas from leaproperty now under the Conservancy's stewardship. In 2019 that amounted to \$10,095.46.

And...if you thought fracking risks only included spills and fires in your faucet...

Researchers at Binghamton University, using data from NASA satellites, only available within the past t have determiend that people are dying unnecessarily from increased particulates in the air as a result o Although the Clean Air Act mandated monitoring of wells, in actuality that monitoring is only in effect neapopulation areas. By using this new technique to analyze satellite data, wells in rural areas, such as the Pennsylvania backyard, can now be assessed as well. The technique invloves calculating the refraction near the ground, which BU researchers have concluded is impacted by the presence of particulate matt released during the drilling process.

For the complete story ckick HERE.