LIVING with WILDLIFE Brown Treesnake

Where in the world?

Find Guam on a globe or world map. What other islands are found in that region?

Now find the countries where the brown tree snake is a native snake. How close are these countries to Guam?

IDENTIFICATION

The color of brown treesnakes varies from olive brown to yellow brown and shades of green and gray. They may have faint yellow and brown banding. The snakes have a broad, flat head with large yellow eyes.

brown treesnakes have mild venom which trickles down grooved teeth at the rear of the mouth. The snake kills its prey by injecting venom while holding the animal with its body.

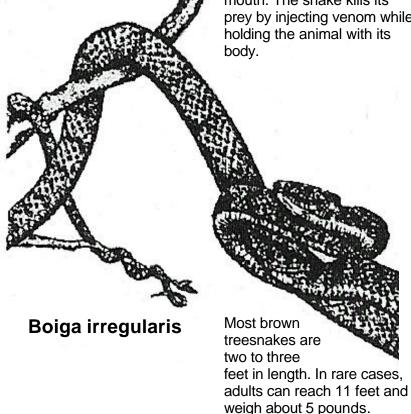
try, eggs and pets. The a keen sense of smell. I are most active at night (nocturnal) and are rare during the day. Any site provides protection from light and high temperature.

Guinea, Solomon Islands and Northern Australia. They now are also found in every area on Guam.

HABITS

Brown treesnakes live on the ground and in the trees. They are **predators** that eat birds, lizards, small mammals, poultry, eggs and pets. They have a keen sense of smell. They are most active at night (nocturnal) and are rarely seen during the day. Any site that provides protection from bright light and high temperatures may serve as a daytime retreat.

Brown treesnakes mate infrequently, but the females are able to lay fertile eggs for as long as six months after mating. She lays 4 to 12 eggs per clutch in caves, hollows of trees or other damp places where the eggs are protected from drying. She may lay two clutches a year. The female lays her eggs then abandons them. The young snakes hatch in about 90 days and are about 15 inches in length. The snakes grow to about 3 feet during the first year of life. They reproduce when they are about 3 years old.



HABITAT

The brown treesnake is **native** to Indonesia, New

Living in Harmony, Living in Conflict

Living in harmony . . .

on their native island, brown treesnakes and humans live in harmony.

- Brown treesnakes are an important predator of small mammals
- Brown treesnakes help control rodent and bird populations



Living in conflict . . .

- When introduced to a new area, brown treesnakes can threaten or cause the **extinction** of native bird and mammal populations
- Brown treesnakes kill endangered or threatened mammals and birds
- Brown treesnakes can bite humans
- Brown treesnakes can cause electrical outages when they climb electrical equipment
- In Australia, brown treesnakes raid outdoor bird cages

Preventing Damage Done by Brown Treesnakes

One of the biggest fears with brown treesnakes is that they will spread from Guam to other places, like Hawaii, and destroy native wildlife populations. Stopping the spread of the snake is a top priority. Some techniques used to prevent snakes from crawling into shipping areas Research currently being include:

- using traps around port areas to catch snakes
- using a spotlight at night to search for and capture snakes
- using dogs, like Jack Russell terriers, to sniff out any snake that may have crawled into cargo
- building snake-proof fences around airports and docks

- removing vegetation and small mammals that might serve as habitat and prey for the snakes
- educating people in the cargo and transportation industry about the problems the snakes cause.

conducted at the National Wildlife Research Center in Colorado involves developing new ways to control snake populations including:

- possible baits and attractants that would make it • control tools for snakes like easier to trap snakes
- possible biological controls like diseases or parasites to reduce snake populations



toxicants, repellants and contraceptives.

Economics of Damage

Brown treesnakes have wiped out most of the native forest birds of Guam. Nine species of birds have disappeared from the island and three other species have been reduced to very low numbers. The brown treesnake has also eliminated several species of native lizards and is a threat to the native bats of Guam.

Snakes crawling on electrical lines frequently cause power outages and damage to electrical equipment. Many people seek medical treatment for snake bites each year with more than 80% of the snake bites occurring at night while people are asleep. In some parts of Guam, it is estimated there are 12,000 brown tree snakes per square mile.

Legends and Folklore

There are many legends about snakes. Adam, Eve and the serpent in the garden of Eden is a well known story. The Aztec's creation story is about "Coatilque" or the "Lady of the Skirt of Snakes."

Quetzalcoatl, the Aztec Serpent God, was the king of the City of the Gods.



reputation that is undeserved.

ward it and was eaten by the snake.

Japan has its legend of the serpent and the Sea Queen and a young warrior named Toda who slays the serpent for the queen.

Many of these legends have given snakes a bad

According to Chero-

kee legend, in ancient times there lived some very large snakes. They had two horns on their heads and they had the magical power of attraction. To see one of these snakes was always a bad omen. Whoever tried to escape from one always ran to-

Your turn . . .

Creative Writing:

- Write a news story about brown treesnakes that gives a positive view of this animal.
- Write a legend about one of the extinct bird species on Guam that brown treesnakes caused to become extinct.
- Research and write a story on how to protect yourself when you see a snake.
- Write a story about a snake and a mouse from the mouse's point of view.
- Next write a story about a snake and a mouse from the snake's point of view.
- Write a story about a snake invading an is land where it has no predators.

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Additional Resources

Wildlife Activity Book and 1998 Wildlife Issue of the Colorado Reader Colorado Foundation for Agriculture P.O. Box 10 Livermore, CO 80536 National Biological Information Infrastructure Brown Treesnake Online: Http://www.nbii.gov/ browntreesnake U.S. Geological Survey Brown Treesnake Information: Http://www.pwrc.nbs.gov/btree. htm

This activity sheet has been developed by USDA Wildlife Services. For more information about brown treesnakes contact your state's Wildlife Services office or USDA Wildlife Services at 301 734-7921.