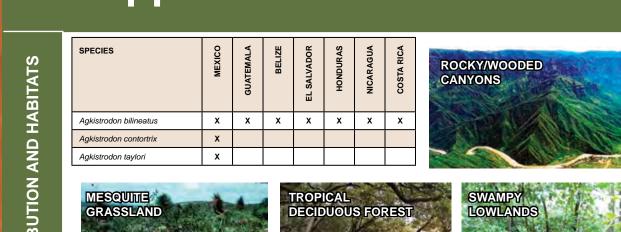
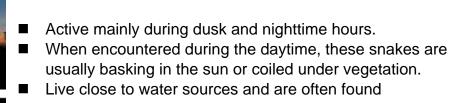
Copperheads and Cantils



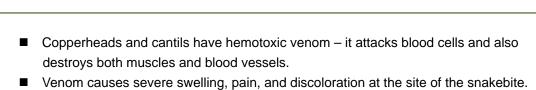






- When cornered or provoked, will thrash tail, display an open mouth, and strike repeatedly.
- Copperheads average 20-30 inches in length; cantils can reach 40 inches in length. Copperheads have straight-edged,
- squarish, brown or chestnutcolored cross bands with dark borders along the back. Cantils are chocolate-brown to black in color and have twin light stripes



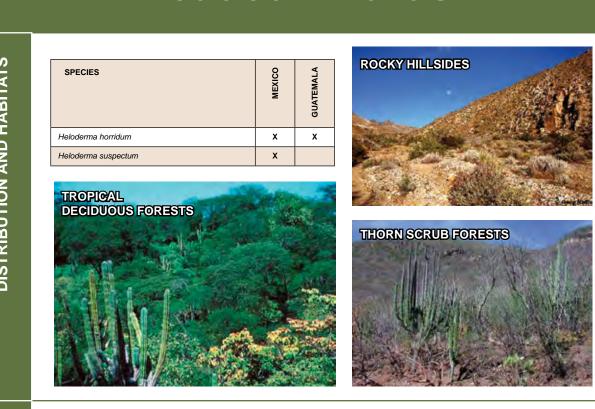


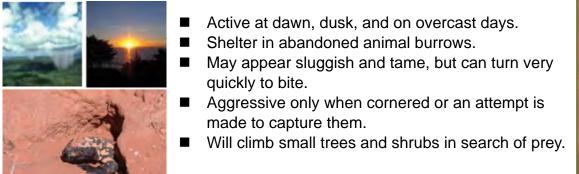
■ Their venom can also cause blistering, bleeding, and destruction of tissue around The venom of Central American cantils is more dangerous than their North American relatives, and these snakes are feared by the locals due to the amount of tissue damage associated with their bites.





Beaded Lizards





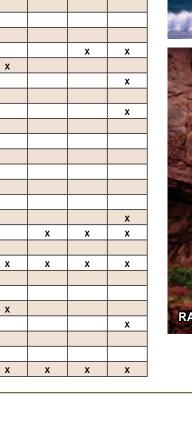
- Broad, flat head; stout bodies and blunt tails. Can reach head to tail length of 30 inches. ■ Black face; small, bead-like scales across the back. ■ Colored with black, orange, pink or yellow broken blotches,
- bars and spots, with bands extending onto the tail. Marie State of the Control of the Co
- Venom glands are located in the lower jaw; at the base of each tooth there is a grooved pit for venom delivery. ■ Venom is delivered by a chewing motion; the lizard's jaws are strong and
- Bites are rarely fatal, but are extremely painful and may result in severe
- Severe envenomations may result in swelling, edema, bleeding, nausea



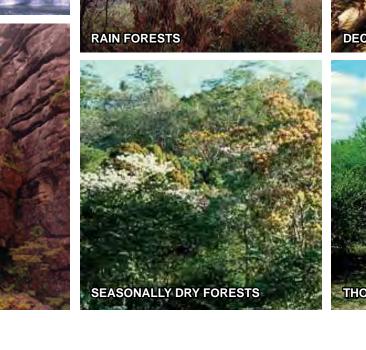


Coralsnakes and Seasnakes

SPECIES	MEXICO	GUATEMALA	BELIZE	EL SALVADOR	HONDURAS	NICARAGUA	COSTA RICA	PANAMA	PACIFIC OCEAN (Seasnakes ONL
Micruroides euryxanthus	х								
Micrurus alleni					х	х	х	Х	
Micrurus ancoralis								х	
Micrurus bernadi	х								
Micrurus bogerti	х								
Micrurus browni	Х	х							The second second
Micrurus clarki							х	х	Name of the last o
Micrurus diastema	х	х	х		х				The state of
Micrurus dissoleucus								Х	
Micrurus distans	Х								
Micrurus dumerilii								х	
Micrurus elegans	Х	х							
Micrurus ephippifer	х								
Micrurus hippocrepis		х	х						
Micrurus laticollaris	х								
Micrurus latifasciatus	х	х							
Micrurus limbatus	х								
Micrurus mipartitus								х	
Micrurus multifasciatus						х	х	х	15 5 0 EVANS
Micrurus nebularis	х								14 10 10 10 10 10 10 10 10 10 10 10 10 10
Micrurus nigrocinctus	Х	х		х	х	х	х	х	
Micrurus pachecogili	х								PER STATE OF THE S
Micrurus proximans	х								
Micrurus ruatanus					х				RAVINES/ROCK
Micrurus stewarti								х	MAVINES/RUCK
Micrurus stuarti		х							
Micrurus tener	Х								
Pelamis platurus	х	х		х	х	х	х	х	

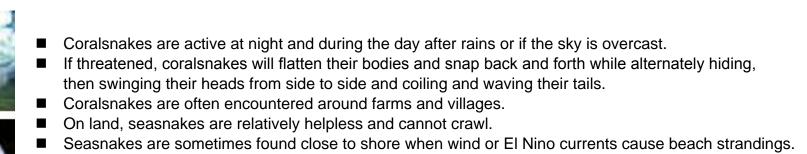












- Coralsnakes and seasnakes are not aggressive, but will bite if handled or stepped on.
- Coralsnakes and seasnakes have narrow heads; eyes are small with round Coralsnakes have short, blunt tails which allow easy movement through leaf

Coralsnakes average 1 to 3 feet in length; seasnakes reach over 3½ feet

- Many coralsnakes have color patterns made up of complete rings of yellow or Many nonvenomous snakes closely resemble coralsnakes in coloration.
- Seasnakes have black or dark brown backs and dark yellow bellies, tails are











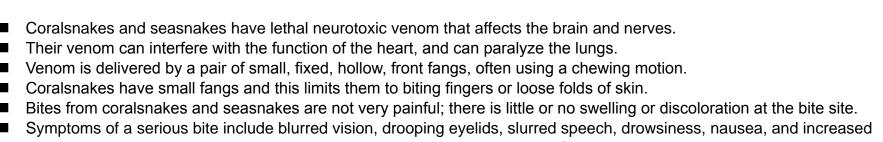




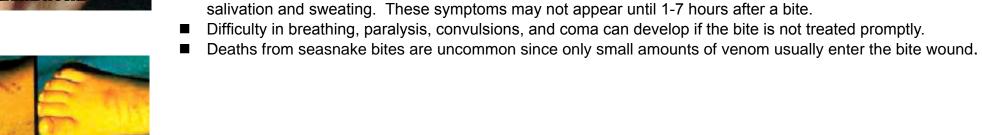


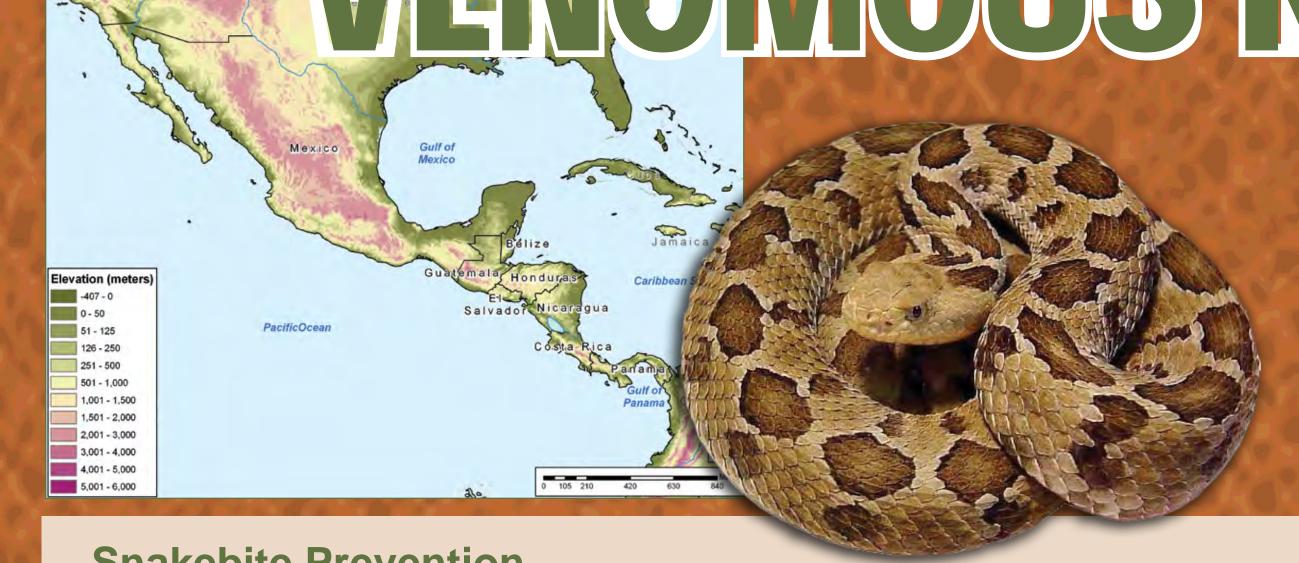












Snakebite Prevention

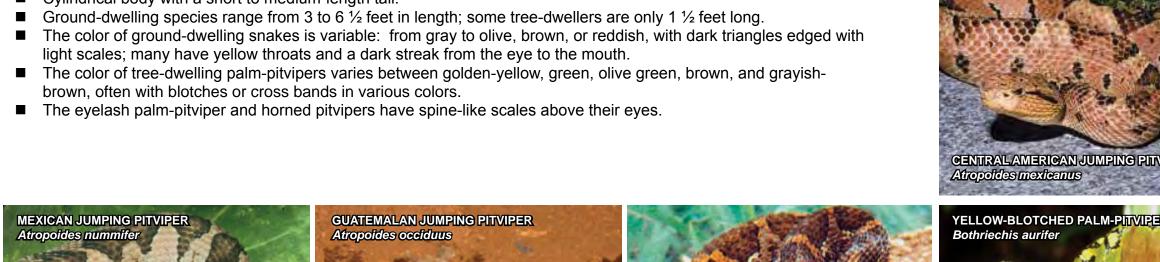
- Venomous snakes are found throughout Central America. Assume that any snake you encounter is venomous. Leave snakes alone. Many people are bitten because they try to kill a snake or get a closer look at it. ■ As tactical situations permit, avoid high risk snake habitats. Locate bivouacs away from piles of brush, rocks, or other debris. Swim only at approved beaches.
- Get rid of things that attract snakes. Remove wood piles, rock piles, construction debris, dumps, dense undergrowth, and similar shelter for snakes. Store supplies elevated off the ground. Practice good sanitation. Control rodents. ■ Practice "SNAKE-SMART" behavior. Shake out bedding and clothes before use. Sleep off the ground, if possible. Wear thick leather boots for the best foot protection.
- Be alert in areas where snakes may be hiding or sunning. Don't reach or place parts of body in places you cannot see into directly, especially high grass or among rocks. Keep hands off of rock ledges. Never sit on or step over large rocks or logs without first checking to see what is on the other side.
- In the unit compound, keep doors, windows, and vents closed whenever possible. Block holes in foundations, crawl spaces, ceilings, and roofs. ■ Do not pick up a "dead" snake; it may only be injured, stunned or playing dead. Even a recently killed snake can bite by reflex action. ONLY IF NECESSARY, use a stick, or shovel and place dead snake in a hard-sided container. Never handle the head when transporting a dead snake that needs to be identified.

Lancehead, Horned, Montane, Jumping, and Palm-Pitvipers

SPECIES	MEXICO	GUATEMALA	BELIZE	EL SALVADOR	HONDURAS	NICARAGUA	COSTARICA	PANAMA	
Atropoides mexicanus	х	х	х		х	х	х	х	FARMS AND VILLAGES
Atropoides nummifer	х								and an analysis of the second
Atropoides occiduus	х	х		х	х				*
Atropoides olmec	х	х							
Atropoides picadoi							х	х	
Bothriechis aurifer	х	х							
Bothriechis bicolor	х	х							
Bothriechis lateralis							х	х	
Bothriechis marchi					х	х			
Bothriechis nigroviridis							х	х	
Bothriechis rowleyi	х								
Bothriechis schlegelii	х	х	х		х	х	х	х	
Bothriechis supraciliaris							х		
Bothriechis thalassinus		х			х				
Bothrops asper	х	х	х		х	х	х		
Bothrops punctatus								х	提到在新文层型》等。
Cerrophidion barbouri	х								
Cerrophidion godmani	х	х		х	х	х	х	х	RAIN FORESTS
Cerrophidion petlalcalensis	х								
Cerrophidion tzotzilorum	х								
Ophryacus melanurus	х								
Ophryacus undulatus	х								1



- Active during the daytime and nighttime hours. ■ Palm-pitvipers are often found coiled in shrubs and branches of large trees. Many species strike quickly if stepped on or threatened.
- Most snakebites are inflicted on the legs of farmers, plantation workers, herdsmen, and hunters. ■ Development in jungle areas has increased the number of snakebites.
- Some species are frequently found beneath large logs and boards, old sheets of tin, or under piles of dead limbs, especially along the edges of man-made or natural forest clearings.
- Broad, flat, triangular head that is distinct from the narrow neck. Cylindrical body with a short to medium-length tail.
- The eyelash palm-pitviper and horned pitvipers have spine-like scales above their eyes.

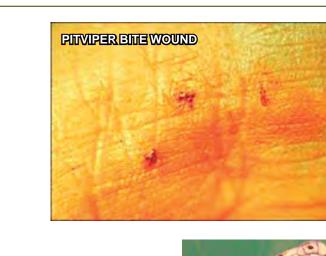






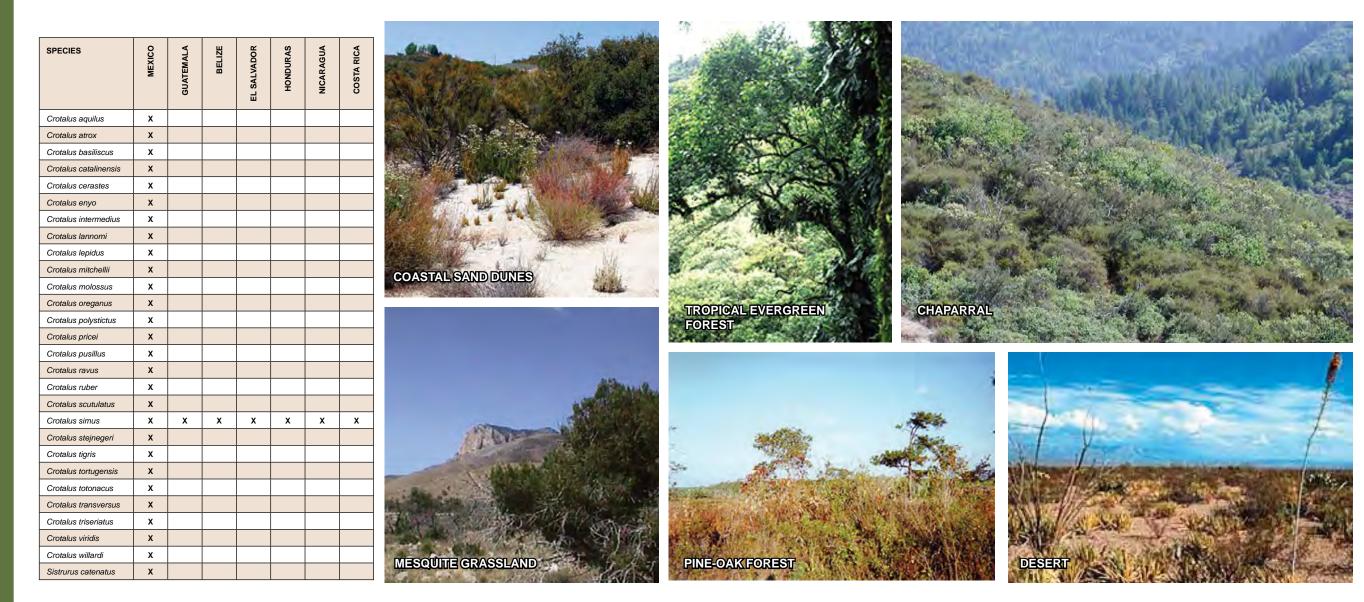


- Mild to lethal hemotoxic venom affects the circulatory system by destroying blood cells, skin tissues and causing internal hemorrhaging. Immediately after venom is injected, pain is intense. Other symptoms can include fall in blood pressure, weakness, rapid pulse,
- nausea, shortness of breath, vomiting, and kidney failure. Death of skin, cartilage, and muscle tissues can occur around the bite site. Lancehead pitvipers are responsible for most of the snakebite deaths in Throughout its range, the terciopelo is considered one of the most
- dangerous snakes due to it's large size, potent venom, and habit of living close to human dwellings. Montane pitvipers are considered the least dangerous of the venomous snakes, due to their small size, mild venom, and small fangs.



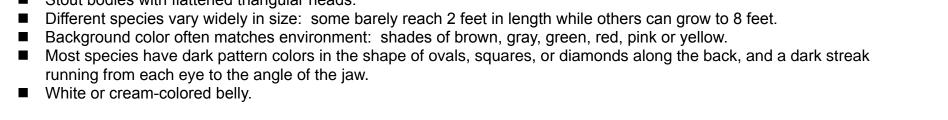


Rattlesnakes





- Active mainly at night and during rainy, overcast days; on the move at sunset. Sit-and-wait predators: remain coiled next to a regularly used animal path, and wait silently for prey to come within striking distance.
 Tail rattle is shaken vigorously to warn off intruders.
- Common in areas with abundant rodents; often found near farms and towns. ■ Some species are relatively docile, while others are quite aggressive when approached.
- Can almost always be identified by the jointed rattle at the tip of the tail. ■ Stout bodies with flattened triangular heads.





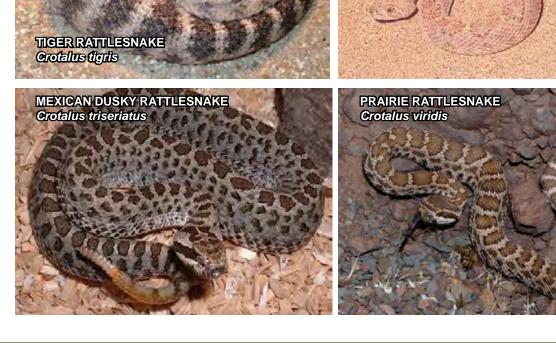














- Central American rattlesnakes have hemotoxic venoms it attacks blood cells and also destroys both Immediately after venom is injected, pain is intense.
- Other symptoms can include fall in blood pressure, weakness, rapid pulse, nausea, shortness of breath, vomiting, and kidney failure. ■ Death of skin, cartilage, and muscle tissues can occur around the bite site. Most rattlesnakes have relatively weak venoms when compared to the region's other pitvipers and
- Large rattlesnake species are especially dangerous; they are widely distributed, can strike about onethird to one-half their body length, inflict deep puncture wounds, and inject large amounts of venom.

Snakebite First Aid

- Move victim out of danger and place at rest. Reassure and calm the victim.
- Remove constrictive items, such as jewelry, watches, rings, or shoes. ■ Lightly immobilize injured part of body and place in comfortable position. ■ Record the appearance and progress of symptoms in as much detail as practicable.
- Transport victim to medical facility as soon as possible. ■ Safely try to note the appearance of the snake (shape of head, body color, shape and length, etc).
- Venomous snakebites cannot be treated in the field. Don't waste valuable time trying. If bitten, always seek medical attention immediately. In a medical facility equipped to maintain stable body functions and with antivenin, no one need die or suffer permanent disfigurement/ disability from a snakebite. Antivenins are available to treat the symptoms of the venoms of many of the most dangerous Central American

Venomous Snake Identification

TUCK INTO ROOF OF MOUTH

CROTALIDS: LANCEHEADS, HORNED PITVIPERS, MONTANE PITVIPERS, JUMPING PITVIPERS, PALM-PITVIPERS, COPPERHEADS, CANTILS, RATTLESNAKES, BUSHMASTERS, AND HOGNOSED PITVIPERS



ELAPIDS: CORALSNAKES AND SEASNAKES





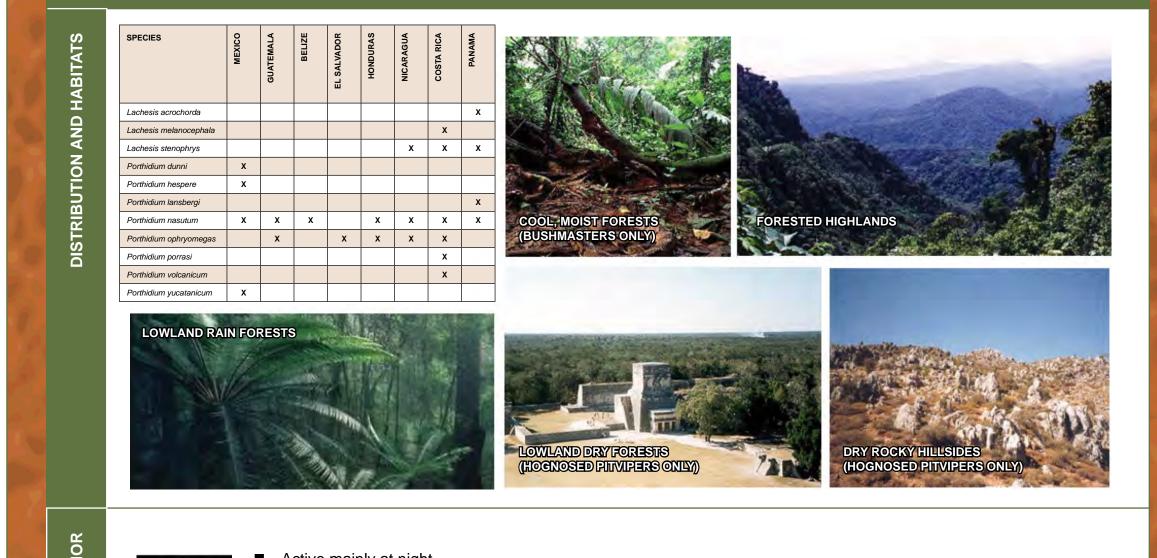
HEAD SMALL AND NOT DISTINCT FROM THE RODY



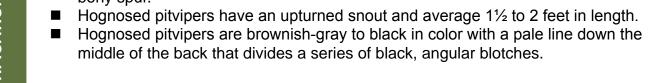
ANAL PLATE SINGLE : SINGLE SCALES

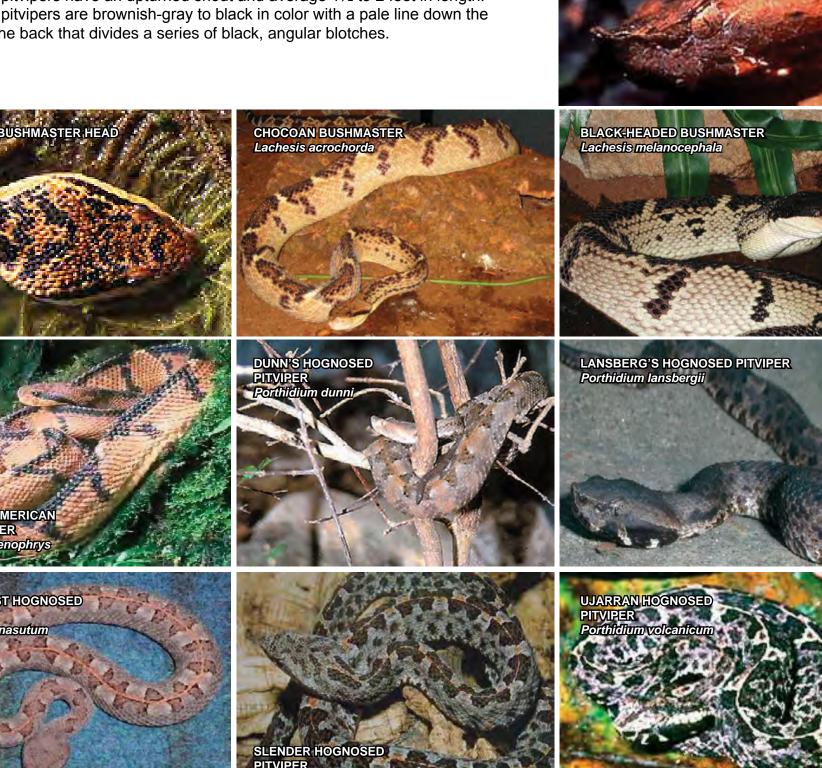
ANAL PLATE DIVIDED; DOUBLE SCALES

Bushmasters and Hognosed Pitvipers



- Hognosed pitvipers are not aggressive but will bite quickly if threatened or disturbed.
 Hognosed pitvipers are responsible for many of the snakebites inflicted on farm workers. When agitated, bushmasters produce a warning sound by shaking their tail tip against foliage.
 Bushmasters are not frequently encountered, but rain forest development has increased snakebites and fatalities.
- Bushmasters are the largest of all Central American venomous snakes and commonly reach over 10 feet in length.
- Bushmasters are yellowish-tan to reddish-brown with brown to black diamondshaped patterns on the back. Bushmasters have a slightly flattened body, with bumpy scales and a ridge of hard, sharp scales running down the center of the back. Their short tail ends in a





■ Hognosed pitvipers and bushmasters have hemotoxic venom – it attacks blood cells and also destroys both muscles and Bushmaster venom is relatively weak but it is produced in great quantities and can kill by causing internal bleeding.

Bushmasters are extremely dangerous due to the large amount of venom injected deeply by long fangs. ■ The venom of hognosed pitvipers typically causes severe pain, swelling, and permanent stiffness around the bite site. Fatalities from hognosed pitvipers are rare, but serious bites cause tissue death around the bite site and swelling







