

**A Checklist of Herptiles of the Gallon Jug Estate
Bruce W. Miller, PhD.
Carolyn M. Miller, MSc.
Gallon Jug, Belize**

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Amphibians and reptiles have been reasonably well documented on the Gallon Jug Estate. Currently 19 species of amphibians and 61 species of reptiles are known to occur here. Studies have ranged from short Chan Chich university based field school trips (e.g., Hauge, J. B. A Checklist of the amphibians and reptiles of Chan Chich Belize, Central America, Penn State University), to five years of amphibian monitoring (Meyer, J. R. 2000. Maya Forest Anuran Monitoring Project, 1999 survey report). Additional records are from the Millers' research and other monitoring projects they have undertaken. This list includes records from others compiled over the past 15 years. This checklist was compiled by Bruce W. Miller and Carolyn M. Miller (November 2, 2009).

While many of the Neotropical reptiles and amphibians are seasonally active (after the onset of the rainy season in late May-June) with persistence many can still be seen, particularly on night walks with the Chan Chich guides.

Like other vertebrate groups, reptile and amphibian taxonomy has undergone many recent changes with recent molecular taxonomic research. Consequently many of the older species names, both scientific and common have been changed. Paul Walker of Wildtracks kindly provided the updated family and species names to reflect the current taxonomy. Both the "old" names and the updated names appear so that the species can be looked up in the existing reference books which use the older taxonomy.

We suggest the following references for those interested in exploring the diversity of amphibians and reptiles around Chan Chich Lodge in more detail:

Lee, J. C. 1996. The Amphibians and Reptiles of the Yucatan Peninsula
 Meyer, J. R., and C. F. Foster. 1996. A Guide to the Frogs and Toads of Belize.
 Stafford, P. J., and J. R. Meyer. 2000. A guide to the reptiles of Belize.

Family	Common name	Former Scientific name	Current Scientific name
Frogs and Toads			
Bufonidae	Marine toad	<i>Bufo marinus</i>	<i>Chaurus marinus</i>
	Gulf Coast toad	<i>Bufo valliceps</i>	<i>Ollotis valliceps</i>
Hylidae	Red-eyed treefrog	<i>Agalychnis callidryas</i>	<i>Agalychnis callidryas</i>
	Loquacious treefrog	<i>Hyla loquax</i>	<i>Tlalocohyla loquax</i>
	Small-headed treefrog	<i>Hyla microcephala</i>	<i>Dendropsophus microcephala</i>
	Painted treefrog	<i>Hyla picta</i>	<i>Tlalocohyla picta</i>
	Hourglass treefrog	<i>Hyla ebraccata</i>	<i>Dendropsophus ebraccata</i>
	Veined treefrog	<i>Phrynohyas venulosa</i>	<i>Trachycephalus venulosus</i>
	Stauffer's treefrog	<i>Scinax staufferi</i>	<i>Scinax staufferi</i>
	Mexican treefrog	<i>Smilisca baudinii</i>	<i>Smilisca baudinii</i>
	Yucatan Casque-headed treefrog	<i>Triprion petasatus</i>	<i>Triprion petasatus</i>
Leptodactylidae	Ranita	<i>Eleutherodactylus rhodopis</i>	<i>Craugastor loki</i>
	White-lipped frog	<i>Leptodactylus labialis</i>	<i>Leptodactylus fragilis</i>
	Black-backed frog	<i>Leptodactylus melanotus</i>	<i>Leptodactylus melanotus</i>
Microhylidae	Elegant narrow-mouthed toad	<i>Gastrophryne elegans</i>	<i>Gastrophryne elegans</i>
	Sheep frog	<i>Hypopachus variolosus</i>	<i>Hypopachus variolosus</i>
Ranidae	Rio Grande leopard frog	<i>Rana berlandieri</i>	<i>Lithobates brownorum</i>
	Vaillant's Frog	<i>R. vaillanti</i>	<i>L. vaillanti</i>
Rhinophrynidae	Mexican Burrowing frog	<i>Rhinophrynus dorsalis</i>	<i>Rhinophrynus dorsalis</i>
Reptiles			
Crocodiles			
Crocodylidae	Morelet's crocodile	<i>Crocodylus moreletii</i>	<i>Crocodylus moreletii</i>
Turtles			
Dermatemydidae	Central American River Turtle	<i>Dermatemys mawii</i>	<i>Dermatemys mawii</i>
Emydidae	Ornate terrapin	<i>Trachemys scripta</i>	<i>Trachemys venusta</i>
Geomydidae	Furrowed wood turtle	<i>Rhinoclemmys areolata</i>	<i>Rhinoclemmys areolata</i>
Kinosternidae	Mud turtle	<i>Kinosternon acutum</i>	<i>Kinosternon acutum</i>
	White-lipped mud turtle	<i>K. leucostomum</i>	<i>K. leucostomum</i>
	Scorpion mud turtle	<i>K. scorpioides</i>	<i>K. scorpioides</i>
	Narrow-bridged Musk Turtle	<i>Claudius angustatus</i>	<i>Claudius angustatus</i>
	Three-keeled musk turtle	<i>Staurotypus triporcatus</i>	<i>Staurotypus triporcatus</i>

Lizards

Corytophanidae	Striped basilisk	<i>Basiliscus vittatus</i>	<i>Basiliscus vittatus</i>
	Old man	<i>Corytophanes cristatus</i>	<i>Corytophanes cristatus</i>
	Helmeted basilisk	<i>C. hernandezii</i>	<i>C. hernandezii</i>
	Casque-headed iguana	<i>Laemanctus longipes</i>	<i>Laemanctus longipes</i>
Eublepharidae	Escorpion	<i>Coleonyx elegans</i>	<i>Coleonyx elegans</i>
Geckonidae	House gecko	<i>Sphaerodactylus glaucus</i>	<i>Sphaerodactylus glaucus</i>
	Dwarf Bark gecko	<i>S. millepunctatus</i>	<i>S. millepunctatus</i>
	Turnip Tail	<i>Thecodactylus rapicauda</i>	<i>Thecodactylus rapicauda</i>
	Asian House gecko - Introduced	<i>Hemidactylus frenatus</i>	<i>Hemidactylus frenatus</i>
Iguanidae	Common Iguana	<i>Iguana iguana</i>	<i>Iguana iguana</i>
Phrynosomatidae	Rose-bellied lizard	<i>Sceloporus variabilis</i>	<i>Sceloporus variabilis</i>
Ptychocheilidae	Anolis verde	<i>Anolis biporcatus</i>	<i>Anolis biporcatus</i>
	Big-headed anole	<i>A. capito</i>	<i>A. capito</i>
	Ghost anole	<i>A. lemurinus</i>	<i>A. lemurinus</i>
	Greater scaly anole	<i>A. tropidonotus</i>	<i>A. tropidonotus</i>
	Lesser Scaly anole	<i>A. uniformis</i>	<i>A. uniformis</i>
Scincidae	Yucatan giant skink	<i>Eumeces schwartzei</i>	<i>Mesoscincus schwartzei</i>
	Snake waiting boy	<i>Mabuya unimarginata</i>	<i>Mabuya unimarginata</i>
	Ground skink	<i>Sphenomorphus cherriei</i>	<i>Sphenomorphus cherriei</i>
Teiidae	Lagartija metalica	<i>Ameiva undulata</i>	<i>Ameiva undulata</i>

Snakes

Boidae	Imperial boa	<i>Boa constrictor</i>	<i>Boa constrictor</i>
Colubridae	Four-lined Middle American Earth snake	<i>Adelphicos quadrivirgatus</i>	<i>Adelphicos quadrivirgatus</i>
	Two-spotted snake	<i>Coniophanes bipunctatus</i>	<i>Coniophanes bipunctatus</i>
	Black-striped snake	<i>C. imperialis</i>	<i>C. imperialis</i>
	Dryad snake	<i>Dryadophis melanolomus</i>	<i>Mastigodryas melanolomus</i>
	Black-tailed indigo snake	<i>Drymarchon corais</i>	<i>Drymarchon melanurus</i>
	Speckled racer	<i>Drymobius margaritiferus</i>	<i>Drymobius margaritiferus</i>
	Tropical Rat Snake	<i>Elaphe flavirufa</i>	<i>Pseudoelaphe flavirufa</i>
	Yucatan hooked-nosed snake	<i>Ficimia publia</i>	<i>Ficimia publia</i>
	Blunt-headed tree snake	<i>Imantodes cenchoa</i>	<i>Imantodes cenchoa</i>
	Cat-eyed snake	<i>Leptodeira frenata</i>	<i>Leptodeira frenata</i>
	Cat-eyed snake	<i>L. septentrionalis</i>	<i>L. septentrionalis</i>
	Green tree snake	<i>Leptophis ahaetulla</i>	<i>Leptophis ahaetulla</i>
	Green-headed snake	<i>L. mexicanus</i>	<i>L. mexicanus</i>
	Red coffee snake	<i>Ninia sebae</i>	<i>Ninia sebae</i>
	Gray vine snake	<i>Oxybelis aeneus</i>	<i>Oxybelis aeneus</i>
	Green vine snake	<i>O. fulgidus</i>	<i>O. fulgidus</i>
	Brown tree snake	<i>Pseustes poecilonotus</i>	<i>Pseustes poecilonotus</i>
	Double Snake	<i>Scaphiodontophis annulatus</i>	<i>Scaphiodontophis annulatus</i>
	Speckled snail sucker	<i>Sibon nebulata</i>	<i>Sibon nebulata</i>
	Pygmy snail sucker	<i>S. sanniola</i>	<i>S. sanniola</i>

	Sartorius's snail sucker	<i>S. sartorii</i>	<i>Tropidodipsas sartorii</i>
	Thunder and Lightning snake	<i>Spilotes pullatus</i>	<i>Spilotes pullatus</i>
	Yucatan White-lipped snake	<i>Symphimus mayae</i>	<i>Symphimus mayae</i>
	Red Earth Centipede snake	<i>Tantilla schistose</i>	<i>Tantilla schistose</i>
	Yucatan Dwarf Short-tailed snake	<i>T. canula</i>	<i>T. canula</i>
	Central American Ribbon snake	<i>Thamnophis proximus</i>	<i>Thamnophis proximus</i>
	Barba amarilla	<i>Xenodon rabdocephalus</i>	<i>Xenodon rabdocephalus</i>
	Black Water snake	<i>Tretanorhinus nigroluteus</i>	<i>Tretanorhinus nigroluteus</i>
Elapidae	Many-ringed Coral snake	<i>Micrurus diastema</i>	<i>Micrurus diastema</i>
Viperidae	Eyelash Palm Pit Viper	<i>Bothreichis schlegelii</i>	<i>Bothreichis schlegelii</i>
	Fer-de-lance	<i>Bothrops asper</i>	<i>Bothrops asper</i>