

CTC Cane Toad Tadpole Identification Guide

(17 Oct 2017)

The following web resources are particularly useful guides to cane toad tadpole identification.

ToadWatch (http://www.frogwatch.org.au/index.cfm?action=cms.page&p=465&m=102&sm=194§ion=1)

NT Government (https://nt.gov.au/environment/animals/feral-animals/cane-toads/how-to-identify-a-cane-toad)

WA Government (https://www.dpaw.wa.gov.au/plants-and-animals/animals/cane-toads)

QLD Government (https://www.daf.qld.gov.au/ data/assets/pdf file/0005/77360/IPA-Cane-Toad-PA21.pdf)

NSW School Project (http://www.dorroughby-e.schools.nsw.edu.au/documents/27596342/27598947/lifecyclecanetoad.pdf)

FrogWatch (http://www.frogwatch.org.au/index.cfm?action=medialib.download&pid=172)







Cane Toad Tadpole Identification Fact Sheet.

A combination of tail length, colour, size, and eye position should allow you to positively identify a cane toad tadpole. Tadpoles are very dark and look black, they have a tail that looks thin and is relatively short and the eyes are towards the top of the head rather than the sides. Cane toad tadpoles are also quite small, only about 22 - 30mm including the tail, when they get legs.

Colour

Cane toad tadpoles are very dark, they look quite black. Most native tadpoles are brown or grey. The native Marbled Frog tadpole, see below, is black also but it has a long ribbon like tail with a pointed tip, which is also black.

Body shape and Size

The body is noticeably broad across the gill region just behind the eyes and the nostrils are obvious. The eyes are more on top of the head than on the sides. The entire tadpole, including the tail is only about (TL)20 - 30mm when the back legs appear. Many native species are much bigger.

Cane Toad Bufo marinus Dorsal (top of body)

Ventral (underside of body)

The underbelly(ventral surface) of the cane toad tadpole is also black around the abdomen. With most native species the underbelly is either clear, silvery white with copper sheen, or densely speckled with copper.

Tai

The fins along the tail of the cane toad tadpole are clear while the muscle in the tail is black. This makes the tadpole look like it has a small fine tail. The Marbled Frog tadpole has bigger, dark fins and looks like it has a wide, 'ribbon-like tail'. Many native species have more colour in the fins, even if just the veins are pigmented.

Tail Length

The length of the tail is a key difference. The cane toad tadpole tail is one to one and a half times the length of the body. Native tadpoles generally have longer tails usually from two to three and a half times longer than the body.

Marbled Frog Limnodynastes convexiusculus



The Marbled frog tadpoles are also black but are much larger than toads(TL75mm+) and the tail is two and a half times the length of the body. Also the tail fins are pigmented and not clear.

Green Tree Frog Litoria caerulea

Tree frogs are generally brown rather than black, they have tails 1.5 to 2 times as long as the body, TL65mm), and the tail fins have fine markings. Their eyes tend to be towards the side of the head.



CANE TOAD CHALLENGE CTC Cane Toad Tadpole Identification Guide

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Feralscan

(https://www.feralscan.org.au/docs/Is%20it%20a%20cane%20toad%20Identifying%20toads.pdf)



QLD Frog Society

(http://www.qldfrogs.asn.au/wp-content/uploads/2015/07/be toadally sure QFS FA web 1.2.pdf)

Toad Spawn, Tadpoles & Juveniles

It is important to recognise cane toad spawn (eggs), tadpoles and juveniles as the early stages of development are when cane toads are most easily controlled

Cane toads deposit their eggs in long strands of clear jelly. The black eggs form a dotted line within these strands. No native Australian from produces spawn like this

Toads prefer to breed in areas of still, shallow open water around dams, ponds, flooded paddocks and drainage ditches. Strands of eggs are laid in shallow water, often wrapped around grass stems and submerged twigs and branches



Toad tadpoles are small (less than 3 m in length), darkbodied and commonly ound swarming in still, shallow open water (e.g., around the margins of ponds and dams).

Young cane toads are active by day and night and large numbers may be seen hopping arou the margins of dams, ponds and flooded naddocks in full sunligh





Controlling Cane Toads in Australia

Cane Toads were introduced (from Brazil) to Queensland in 1935, in an unsuccessful program to control the cane beetle, which was damaging the sugar industry at the time. The toad rapidly adapted to local conditions



Its resilience and robustness allowed it to spread throughout QLD and into NSW, the NT, and now WA

Cane Toads have prominent, paired glands behind their eyes, extending along the back of their heads. These so-called parotoid glands secrete toxins which are potent enough to full most predators that ingest, or even just mouth them. As a result, the Cane Toad's spread across Australia has seen a decline in populations of our carnivorous native wildlife, such as quolls, some birds, blue-tongued lizards, snakes and even crocodiles. Despite this, no extinctions have yet been linked directly to the Cane Toad.

Regardless, the cane toad does not belong here. Though complete eradication of toads is unlikely, control measures can significantly reduce the number of toads measures can significantly reduce the number of toads occurring locally. This is simply done by scooping spawn and tadpoles from the water. The easiest and most humane method for controlling juveniles and adults is by bagging them and placing in the fridge for several hours, before transferring to the freezer for several days. The toad is unable to perceive pain as the brain cools and freezes at the same rate as the body¹.

¹Shine. R, Amiel. J, Munn. A.J, Stewart. M, V, Lesku. J.A (2015) Is "cooling then freezing" a









