Management of Cane toads in NSW-Toadally serious stuff

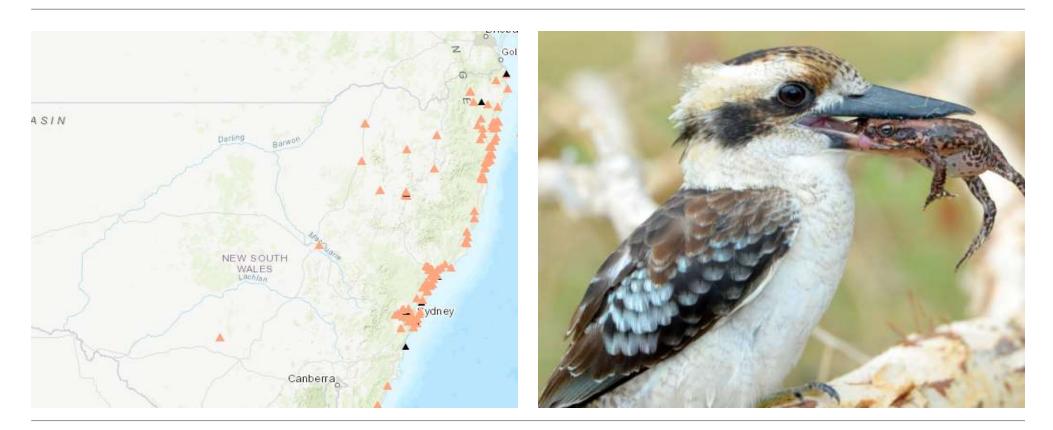


Vic Greentree Invasive Species Officer 17 October 2023



Cane Toads in NSW





Agenda



NSW Cane toad Biosecurity zone review

Mandalong Cane toad eradication program

Kenthurst Cane toad management program

Communications and Reporting



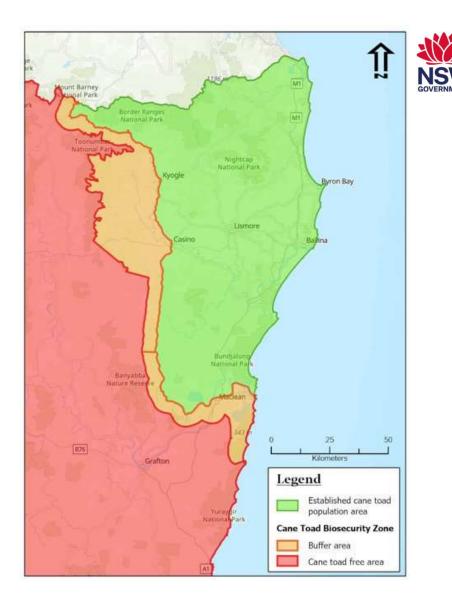
Photo credit Matt Greenlees- Female toad

Current Cane toad Biosecurity zone

The NSW Cane Toad Biosecurity Zone was established on December 13, 2019, through the gazettal of an amendment to the Biosecurity Regulation 2017 (Part 2C Division 2)

The zone is described in the regulation and illustrated spatially at Appendix A.

The regulation requires certain actions to be undertaken by landholders in relation to cane toads in the Biosecurity Zone and these are described in the Regulatory Measure.



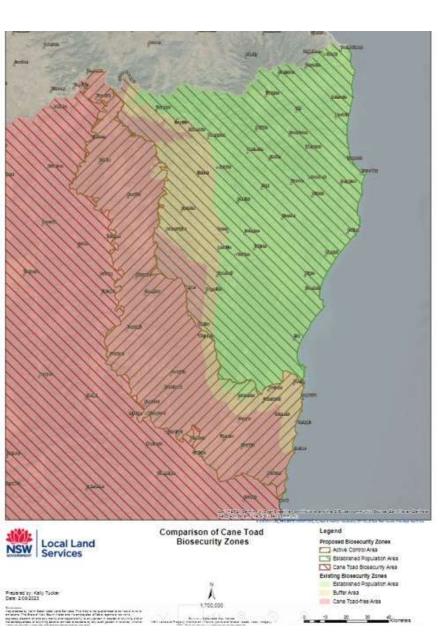
NSW Cane Toad Biosecurity one

Consultation





Consultation process on the new biosecurity zone borders- NPWS, LLS, Landcare and independent contractors participated



Proposed CTBZ and current CTB

- Key The solid background colours reflect the existing NSW CTBZ
- green (widespread area)
- Amber buffer zone
- Red cane toad free
- Proposed zone is hatched.
- Hatched green is the widespread area
- Hatched amber is the 'active control zone'
- Hatched red is the cane toad free area
- There are significant differences between the existing and proposed.



Subtitle

Mandalong Cane toad eradication program

21/22 Cane toad season

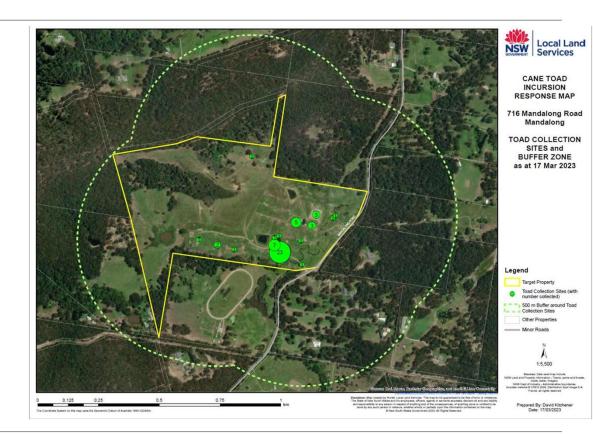
- 52 Cane toads collected in total- all from IP1 and IP2
- Night surveillance 3 night /fortnight starting 19/9/22
- Last on ground surveillance 4/5/2023
- Last toad caught 15/3/23
- Detector dogs
- traps

•

• Listening stations

€ →

- Clean up site
- Report from University of Newcastle
- eDNA
- DNA
- Community communications



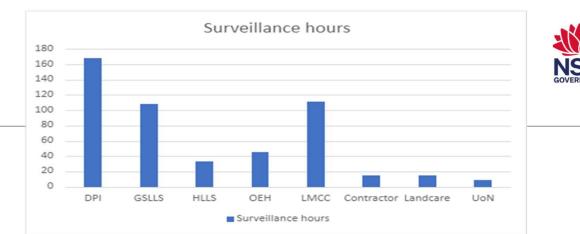




- Three nights a fortnight
- Over 500 hours
- This is not including day-time activities

Songmeters

- 15 listening stations
- Almost 1000hrs listening
- 5 properties
- No toads detected









University of Newcastle data

- Majority of the toads collected were considered juveniles- not capable of reproduction
- No adult females collected
- Four of the toads collected at the end of summer in 2023 were sexually mature. Only one ever detected calling.

Environmental DNA

Training and sampling



DNA- Where did they come from





Mandalong toads came from 7 breeding pairs

14 toads were full siblings

The adult male was not related to any of the other toads tested

Breeding event from one mating pair ruled out

Parents of toads not collected

Scenario 1. The sub-adults collected at the site are the product of local breeding in Mandalong.

Scenario 2. Many related juveniles or sub-adults sheltered together and were transported together to Mandalong (Most likely).

Come and join us







Native frogs seen during night surveillance









Subtitle

Kenthurst Cane toad program

Kenthurst CT program



- 11 found in one day
- Song meters
- Detector dogs
- eDNA
- Monthly night surveillance
- Site plan
- SWMS
- Detection report form and all data entered into Feral Scan and MAXX



Detector dog trained for Cane toads

Kenthurst CT program





INDIVIDUAL BIOSECURITY DIRECTION

NSW Biosecurity Act 2015

am an authorised officer under the Biosecurity Act 2015 (the Act). In accordance with section 123 of the Act I hereby give an individual biosecurity direction (the biosecurity direction) to the following person:

idential or business add	ress	
	NSW	2156
burb	State	Postcode
Dation		and the state of the
ione	10	Email

R; NSW 2156 is the trading location of any state The premises located at Pty Ltd. This business is subject to ongoing incursions of cane toads (Rhinella marina) through business trade activities and is currently implementing management of cane toads (eradication) in accordance with an approved Cane Toad Site Specific Management Plan treferred to as the Plan). The Plan has been approved and agreed to by Director

In accordance with section 128 of the Act. I reasonably believe that the biosecurity direction is

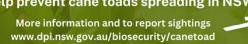
Cane toad containment area and Biosecurity direction

Communication

- Trade shows
- Electronic ٠ display boards
- Flyers ۲
- Facebook ۲ posts









Protect what we love Cane toads have different features to native frogs



How to report



Online form

http://www.dpi.nsw.gov.au/biosecurity/forms/ report-an-unusual-animal-sighting

Email

invasive.species@dpi.nsw.gov.au

Phone 1800 680 244

