Did you know foxes use their tail as a ‘signal flag’?

UNLIKELY ALLIES: Maremma guardian dogs are protecting eastern barred bandicoots, as scientists endeavour to reintroduce the little marsupials to their natural environment in Victoria.

How many species of bandicoots do you know?

Are Maremma dogs good suburban pets?

DOGGY CARE

Bandicoot’s new best friend

WHAT do bandicoots, dogs, foxes and sheep have in common? Well it might sound like a bad dad joke, but the answer to this question is more interesting than you might expect. It starts with the eastern barred bandicoot, the shy, little marsupial which is endemic to Tasmania and south-western Victoria. The Tasmanian and mainland populations are actually recognised as two distinct subspecies, and the mainland subspecies is believed to be extinct in the wild. The Tasmanian subspecies is doing better than its mainland relative, possibly because Tasmania is not home to the European red fox, or at least we don’t think it is.

But eastern barred bandicoots are still regarded as ‘vulnerable’ to extinction here, so we need to do our very best to look after them. The Victorian subspecies currently survives only in captivity and in reintroduced populations, and that is where dogs comes in. Not just any dogs; we are talking a very special breed of guardian dogs – Maremmas.

In a collaborative research trail between Zoos Victoria and the University of Tasmania, eastern barred bandicoots have been released into reserves at two sites in western Victoria. The areas are also home to flocks of sheep and guardian dogs. The dogs have been specially trained to leave the bandicoots alone, but their natural instinct to protect the sheep will keep foxes away. In other words, the sheep will be free to eat grass, the bandicoots will live in the grass, and the dogs will happily guard against foxes.

University of Tasmania ecologist, Professor Chris Johnson, and his former PhD student, Dr Linda von Bommel – an expert on the behaviour and management of Marremas— worked with a team at Zoos Victoria to develop the idea, and played a key role in monitoring trial sites. “The project is running a large experiment – we are setting up Maremmas and sheep at several trial sites in Victoria, where we plan to release bandicoots,” Professor Johnson said. “The information is crucial, as we would not release bandicoots unless we were confident the Maremmas were having the desired effect on foxes.” You can read the full University of Tasmania, Research to Reality story here: www.utas.edu.au/news/2020/12/17/1103-guardian-dogs-provide-safe-haven-for-endangered-bandicoots/

Continued Page 2

“Education perhaps more than anything else is a passport to a better life.” - Peter Underwood AC
Maremmas are a breed of guardian dog that originated in Italy, where they have been used for centuries to guard sheep from wolves. They are a large dog, with a thick white coat and a loud bark. Unlike herding dogs, they form a bond with livestock, and happily take on the role of protecting herds. Most of the time their presence is enough to scare off predators. It is rare that they actually have to confront predators, or chase them away.

It is not the first time Maremmas have been used to protect wildlife in Australia. The Zoos Victoria Guardian Dog Project follows the success of the Middle Island Maremma Project, which involved dogs being trained to protect penguins from foxes during breeding season. The Maremmas do a wonderful job protecting the precious eastern barred bandicoots.

Twenty bandicoots were released at a reserve near Skipton last year. Two months later 10 were found to be in good condition, and four females had pouch-young. This encouraged the release of 20 more at a reserve in Dunkeld.

Scientists are closely tracking the movements of the bandicoots and the guardian dogs. The 50-hectare Dunkeld reserve is equipped with 60 wildlife cameras, the two guardian dogs are fitted with GPS trackers, and the bandicoots are fitted with tiny radio transmitting which weigh about one gram. Zoos Victoria Guardian Dog Coordinator David Williams said the trial's key measure of success would be the establishment of self-sustaining populations of bandicoots on the mainland.

Cross Quiz

Use the picture clues to solve the puzzle, then check the highlighted squares to find out what I am. The answer is below.

| I | A | F | E
|---|---|---|---
| V | Q | O | P
| A | L | N | M
| Y | D | C | B
| G | T | U | Š

DID YOU KNOW?
Flamingoes live in and around lakes and lagoons. They eat crustaceans, insects, fish, and small plants.

SOLUTION: I: Camel 2: Giraffe 3: Camel 5: Kangaroo 6: Emu 7: Snail 8: Flamingo