

'Mini kangaroos' hop back in South Australia

May 19 2023, by David WILLIAMS



This handout picture released by WWF Australia shows a juvenile male brush-tailed bettong - a rare, very cute marsupial resembling a rabbit-sized kangaroo.

The brush-tailed bettong—a rare, very cute marsupial resembling a rabbit-sized kangaroo—is bouncing back on the South Australian

mainland, more than 100 years after disappearing from the region.

Bettongs, which leap with their hindlegs much like a full-sized kangaroo, populated over 60 percent of Australia before falling victim to cats, foxes and land-clearing after European settlement more than two centuries ago.

Now they are making a comeback in South Australia's Yorke Peninsula, after wildlife scientists released 120 of the animals over a two-year period to see if they could survive outside of predator-proof enclosures or islands.

New monitoring shows they are thriving, researchers said Friday.

Scientists said they had trapped 85 brush-tailed bettongs, finding that 40 percent of them were new animals born in the peninsula and 42 of the 45 [females](#) had young in their pouches.

"It's fantastic to see so many new animals in the population," said Derek Sandow, ecologist for the Northern and Yorke Landscape Board.

The furry creatures—their numbers down from tens of millions pre-colonization to an estimated 12,000 to 18,000 now—have clung to existence on Australian islands, in protected enclosures, and in a few pockets of Western Australia.

'Mini-kangaroo on steroids'

Their comeback in South Australia was helped by an intensive cat and fox control program, Sandow said, as well as a "leaky" fence to reduce—without entirely excluding—the predators from the southern part of the peninsula.

The little [animals](#) play a big role in Australia's environment, he told AFP.

"They're a little, ankle-sized kangaroo, a mini kangaroo on steroids if you like. They've got really powerful hind legs, they carry their young in their pouch, like a kangaroo does, but they're only a kilo and a half (three pounds)," Sandow explained.



Bettongs, which leap with their hindlegs much like a full-sized kangaroo, populated over 60 percent of Australia before falling victim to cats, foxes and land-clearing after European settlement more than two centuries ago.

"So they're only small, but they'll shoot around in the bush, they'll create

their little nests underneath in dense vegetation," he said.

"They dig a lot. A little bettong can move tons of soil per year. So they dig in the ground, they create little micro habitats for water infiltration for seeds to establish. And so they're just really important in the ecosystem."

Since their numbers were decimated by cats and foxes, no other creature had been able to replicate their role in making the Australian landscape habitable for other wildlife, he said.

Under attack, female brush-tailed bettongs have an unusual but effective defense mechanism, Sandow said.

"To get away, they'll kind of zigzag off through the bush at high speed. They're really fast for their size," the scientist said.

'Horrible parenting'

But females had an extra defense mechanism—throwing out their young from their pouches in the hope of escaping while the predator targets their offspring.

"It sounds like horrible parenting, but it's really successful," Sandow said.

They breed quickly, he said, and females often have embryos ready to advance into the pouch when their young leave naturally or die.

"They can basically have their baby ready to go in their back pocket, and then replace it," he said. "And then, within a matter of weeks, they can kind of be back at that same stage."

Scientists believe the brush-tailed bettong and other species can thrive if fox and cat populations can be controlled, even if they are not eradicated, Sandow said.

"We are really hoping that the brush-tailed bettong is just one of the first of many species that we can bring back and help restore the bush."

© 2023 AFP

Citation: 'Mini kangaroos' hop back in South Australia (2023, May 19) retrieved 1 September 2024 from <https://phys.org/news/2023-05-mini-kangaroos-south-australia.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--