

Bat roosts in trees; ideas on mitigation and creation



Contents

- Resurrecting features
- Creating features in living vs dead trees
- Our project

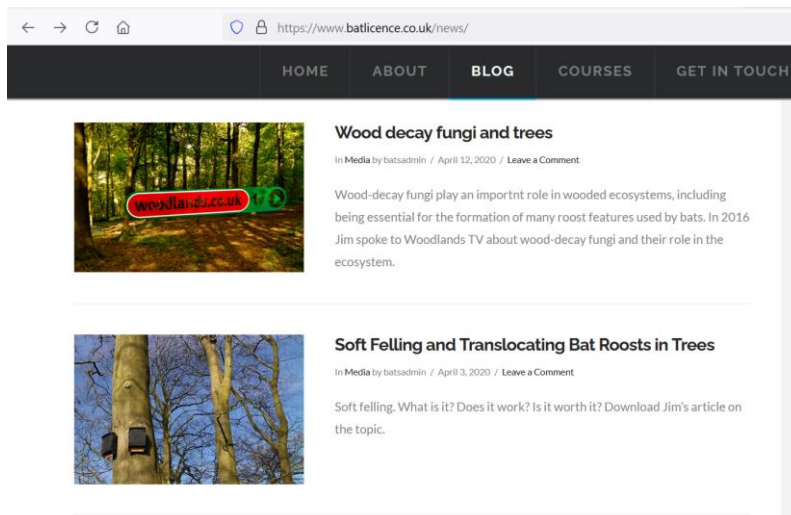
Resurrecting features

In Practice Issue 89: Conservation Translocations (Sept 2015)

- Soft felling
- Translocation



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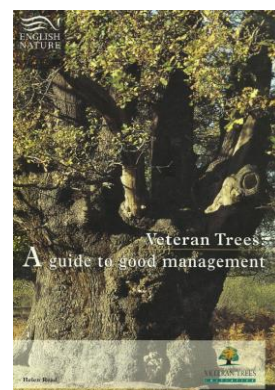
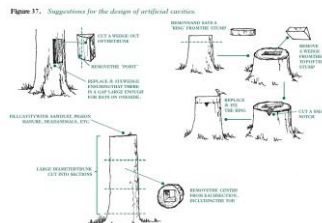
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Creating features in living vs dead trees

Veteran trees: A guide to good management (2000).

Helen Read.



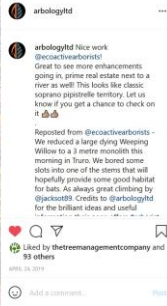


Tom Bennett

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Creating features in living vs dead trees

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Creating features in living vs dead trees

Disease and decay

- Woodpecker holes
- Squirrel-holes
- Knot-holes
- Pruning-cuts
- Tear-outs
- Wounds
- Cankers
- Compression-forks
- Butt-rots

Damage

- Lightning-strikes
- Hazard-beams
- Subsidence-cracks
- Shearing-cracks
- Traverse-snaps
- Welds
- Lifting bark
- Desiccation-fissures
- Frost-cracks

Association

- Fluting
- Ivy

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Creating features in living vs dead trees

Trees are not like us!



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Creating features in living vs dead trees

Trees cannot heal themselves.



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Creating features in living vs dead trees

Disease and decay

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Creating features in living vs dead trees

Rueegger, N (2017)

- Sixteen hollows of two simple cavity types were created in a timber production forest in south-eastern Australia.
- 50% used by long-eared bat (*Nyctophilus* sp.)



Forest Ecology and Management
Volume 405, 1 December 2017, Pages 404-412



Artificial tree hollow creation for cavity-using wildlife – Trialling an alternative method to that of nest boxes

Niels Rueegger

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Creating features in living vs dead trees

Griffiths *et al.* (2018)



Article

Chainsaw-Carved Cavities Better Mimic the Thermal Properties of Natural Tree Hollows than Nest Boxes and Log Hollows

Stephen R. Griffiths ^{1,*} , Pia E. Lentini ², Kristin Semmens ¹, Simon J. Watson ¹, Linda F. Lumsden ³ and Kylie A. Robert ¹

- ‘Chainsaw hollows’ carved directly into the trunks and branches of live trees,
- ‘Log hollows’,
- Plywood nest boxes.

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Creating features in living vs dead trees

Griffiths *et al.* (2018)

- Chainsaw hollows had thermal profiles that were similar to natural tree hollows: they were consistently warmer than ambient conditions at night, while remaining cooler than ambient during the day.
- In contrast, glider and bat boxes had the opposite pattern of heating and cooling, being slightly cooler than ambient at night and substantially hotter during the day.

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Creating features in living vs dead trees

Terry *et al.* (2021)

- 'Chainsaw hollows' more attractive than nest boxes.
- Brush-tailed phascogale and sugar glider.



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Five-year research project
Improving the future for two tree-dwelling bats

Funded by

people's
trust for
endangered
species



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Improving the future for two tree-dwelling bat species

In Research by batsadmin / July 6, 2020 / [Leave a Comment](#)

BATS Research and Training Services has recently secured funding to undertake a five-year research project focused on improving the future for two tree-dwelling bat species. The project, which focuses primarily on Bechstein's and barbastelle bats, has been funded the [People's Trust for Endangered Species](#) and the [Arboricultural Association](#).

 Search

RECENT POSTS

[Work at Height Regulations and tree climbing surveys for bats](#)

[Bat licence training service](#)

[Industry Code of Practice for Arboriculture Tree Work at Height](#)

[Improving the future for two tree-dwelling bat species](#)

[Surveying Bechstein's maternity roosts: a new approach](#)

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[bahis on Veteran trees and bats: does size matter?](#)





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Creating features in living vs dead trees

We need more hollow
(living) trees!



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Thank you

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www.batlicence.co.uk

www.youtube.com/c/batsintrees



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