



# The Exmoor Non-Native Invasive Species Project

#### **Kate Lacey**

**ENNIS Project Officer Exmoor National Park Authority** 

**LAG Workshop February 2023** 



## Background to project

2005 Exmoor Knotweed Control Project

2014 River Barle Signal CrayfishControl Project

**2019** – ENNIS project funded through

**2022** Water Environment Grant

**2022** – ENNIS project funded through

**2024** Farming in Protected

Landscapes and partners

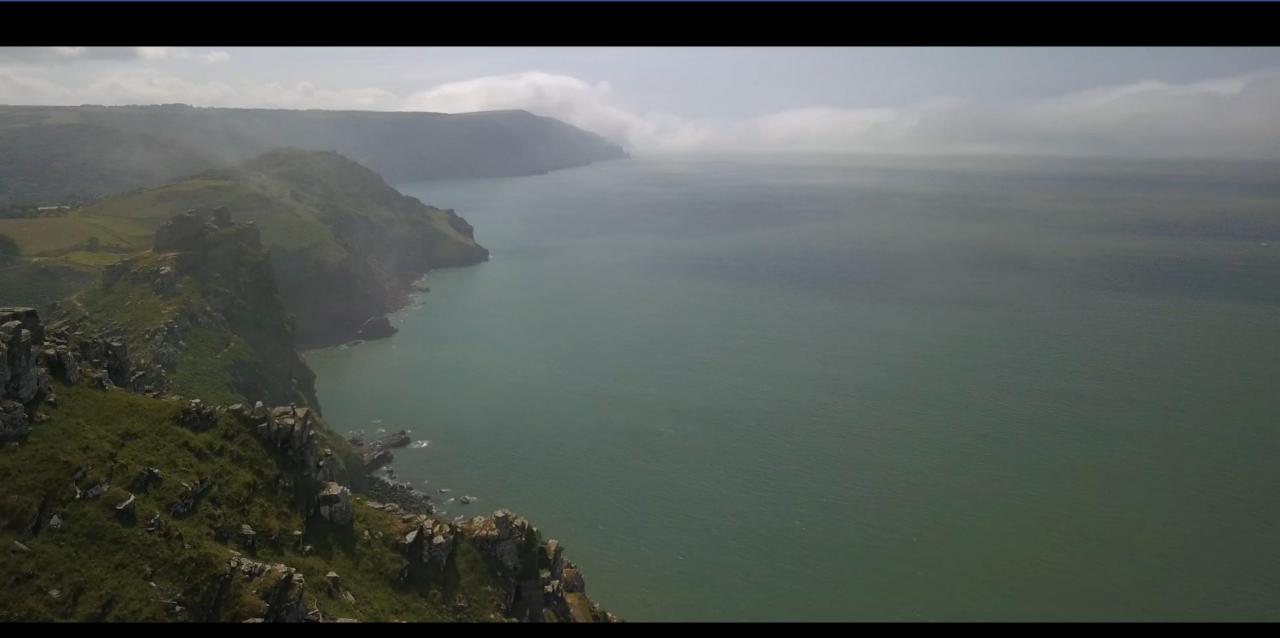




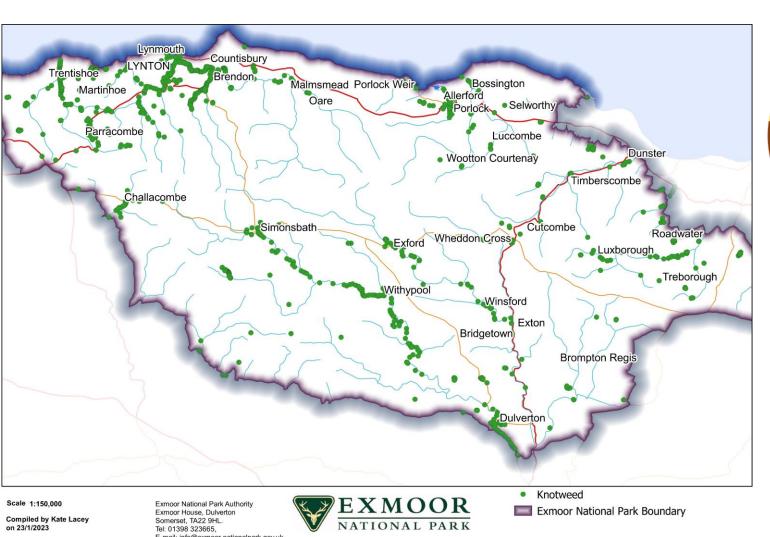




# **ENNIS Film Trailer**



#### Exmoor Knotweed Control Project

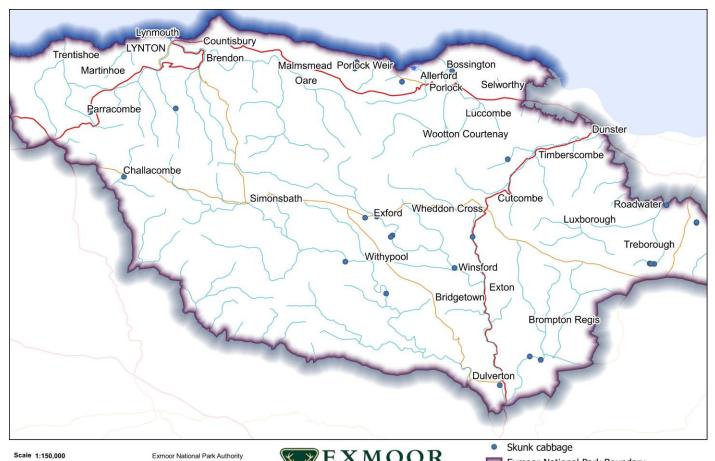


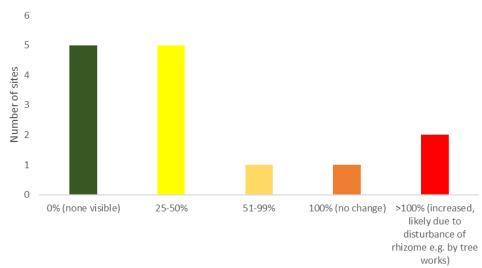
Growth patterns 2013 ■ Not stated due to disturbance/ cutting/ owner has treated ■ Vigour and area unchanged ■ Vigour and area reduced Vigour increased, area increased New sites treated in that year ■ Sites with no visible growth Vigour unchanged, area reduced ■Vigour increased, area unchanged or reduced Growth patterns 2021 ■Not treated (permission granted) ■ Not stated

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#### Exmoor Skunk Cabbage Control Programme





Percentage of original number of plants showing (first visit of 2021)

Scale 1:150,000 Compiled by Kate Lacey on 23/1/2023 Exmoor National Park Authority
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EXMOOR NATIONAL PARK

Exmoor National Park Boundary

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#### Rootwave Pro Trials

- An alternative to glyphosate for invasive species management on organically certified land.
- Rootwave Pro machine uses an electric current (up to 5000v) to raise the temperature of the plant.
- Trialled treatments for Japanese and Himalayan knotweed, skunk cabbage, montbretia, giant hogweed and fringecups.
- Limitations include transporting machine and weather dependency.





#### Rootwave Trials – Knotweed



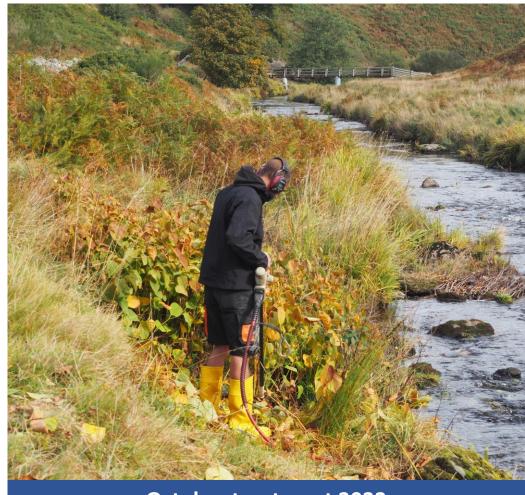


Sept pre treatment in 2021



Nov two months after first treatment of 2021

#### Rootwave Trials – Knotweed

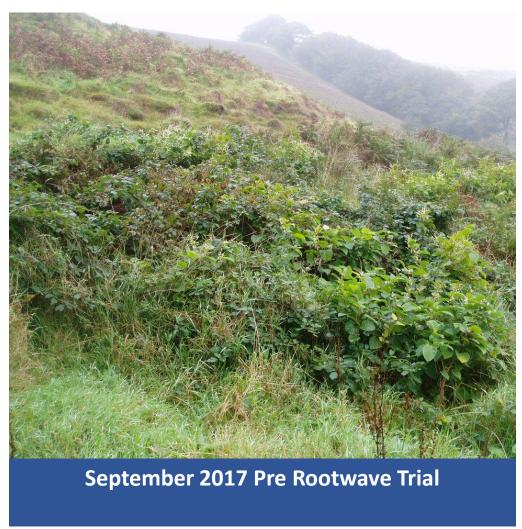


October treatment 2022



November one month after treatment in 2022

## Rootwave Trials – Knotweed





# Rootwave Trials – Skunk Cabbage



June 2020 pre treatment



September after two treatments in 2020



June pre treatments in 2021



Oct after one treatment in July 2021

## **Rootwave Trials – Montbretia**



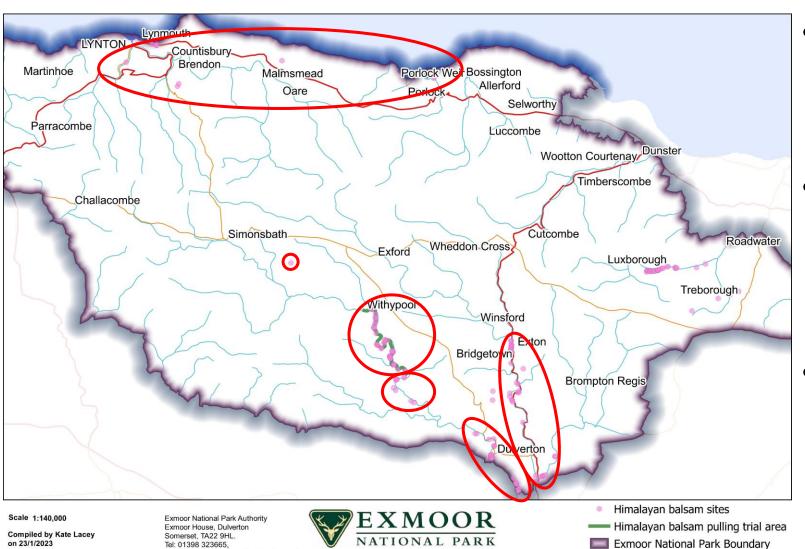
1 month after treatment

## River Barle Signal Crayfish Project

- Multi-method, long term approach using baited & artificial refuge traps, sterilisation & return of dominant males
- Weekly trapping of a 1.5km reach from April to October, 2015 - 2022, led by citizen scientists
- Results:
  - Artificial refuge traps more effective than baited traps
  - Consistent decrease in catch rates since 2017
- Current focus is to contain the upstream expansion on the River Barle and River Exe



## River Barle Himalayan Balsam Trial



- Low priority
  - Never found again
  - Coastal areas
- Medium priority
  - Trial area has very little left
  - Coming under control
- High priority
  - River Barle around Dulverton
  - River Exe

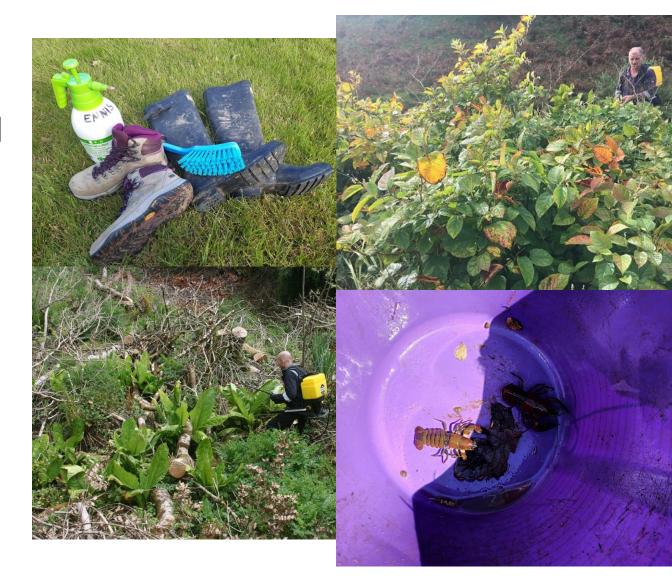
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#### Plans and Ambitions for 2023

- Continue our knotweed and skunk cabbage treatments
- Continue the Rootwave trial and evaluate the success of the treatments
- Large scale Himalayan balsam pulling and crayfish catching days
- Spreading awareness about biosecurity, targeting different audiences





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Visit Our Website <a href="http://www.exmoor-nationalpark.gov.uk/Whats-special/exmoor-non-native-invasive-species-ennis">http://www.exmoor-nationalpark.gov.uk/Whats-special/exmoor-non-native-invasive-species-ennis</a>

Or search online for 'ENNIS Exmoor'

#### Thank you to our project partners:











