# Field Guide to Beaver Signs Recorded in South East England





The Manager's House, Ratling Court Farm, Ratling Road, Aylesham, Kent CT3 3HN BramleyAssociates@btopenworld.com www.bramleyassociates.co.uk











Surveyors: Jonathan Bramley BSc MPhil MCIEEM, Oliver Parfitt BSc, Jason Armstrong MECW, Tracey Bramley BSc, Dill Furlotte, Oliver Bramley BSc, Alfie Bramley BSc and David Rogers BSc

### Preface

In 2016 Bramley Associates were on a team building exercise, canoeing along a river in East Kent. On this trip it became apparent that some trees had been felled, but not by tree surgeons. On close inspection, we soon discovered that beavers were very active in this stretch of water.

Subsequently, we wanted to know the extent of beaver activity in this part of Kent. A proposal was sent to the county records centre, who funded Bramley Associates to carry out a small pilot survey on a 2km scale.

In 2018 our reconnaissance survey commenced. Beaver signs were found in every 2km square of the area being surveyed. Following this survey, two articles were published: one by The Mammal Society in 2018 and the other by Kent Field Club in 2020. This resulted in Bramley Associates being commissioned to conduct a very detailed survey of an East Kent area in 2021.

The book "The Eurasian Beaver Handbook" published in 2016 is an excellent guide to beaver activity in many parts of the UK and Europe. Several field signs shown in that publication are what is generally considered to be classical signs - felled trees and beaver dams for example. High beaver population numbers can be sustained in habitats often considered to be typical of this species - in areas found commonly in the west country, Wales and Scotland, where anthropogenic impact may be comparatively lower than the South East of England. In Kent and elsewhere, intense land-use pressures and habitat degradations, particularly occurring on flat grass and arable farmland, influence field signs, which are often more inconspicuous in partial response to those factors.

Bramley Associates have noted that the presence of beaver activity is being overlooked in some commercial riparian surveys being undertaken in South East England. This is due to the often-cryptic nature of these beaver populations, which is similar for several known otter and water vole populations. We have therefore produced this beaver field guide to demonstrate the characteristics of beaver activity we have observed in the South East. This guide shows positive signs of beaver activity but also signs that could be mistaken for beaver presence. We have in this guide given signs as they are found on survey works. The guides for many mammals show signs that are found in perfect condition, this can be very rare in field work. If in doubt of what is present, check around for other signs, as this may well support original findings.

This guide will be applicable to many other areas in the UK that are dominated by flat, farmland habitats with interwoven ditch, stream and river systems.

Bramley Associates are happy for people to download this document, but request that this field guide be referenced in all usage as a professional courtesy.

#### Please reference as:

Bramley, J., Parfitt, O., Armstrong, J., Bramley, T., Furlotte, D., Bramley, O., Bramley, A. and Rodgers, D. 2022. *Field Guide to Beaver Signs Recorded in South East England*. Bramley Associates, Manager's House, Ratling Court Farm, Ratling Road, Aylesham, Kent CT3 3HN.

#### Contents

Habitat Types Surveyed in SE England	1
Beaver Feeding Signs – Wood Vegetation (True)	5
Beaver Feeding Signs – Cryptic Wood Vegetation	8
Beaver Feeding Signs – Wood Vegetation (False)	9
Beaver Feeding Signs – Aging Wood Vegetation	10
Beaver Feeding Signs – Herb Vegetation (True)	11
Beaver Feeding Signs – Herb Vegetation (False)	12
Beaver Footprints (True)	13
Beaver Footprints (False)	14
Beaver Trails (True)	15
Beaver Trails (False)	16
Beaver Burrows and Channels (True)	17
Beaver Burrows and Channels (False)	18
Beaver Lodges and Dams (True)	19
Beaver Lodges and Dams (False)	20
Beaver Anatomical Features	21
References	24

# Habitat Types Surveyed in SE England









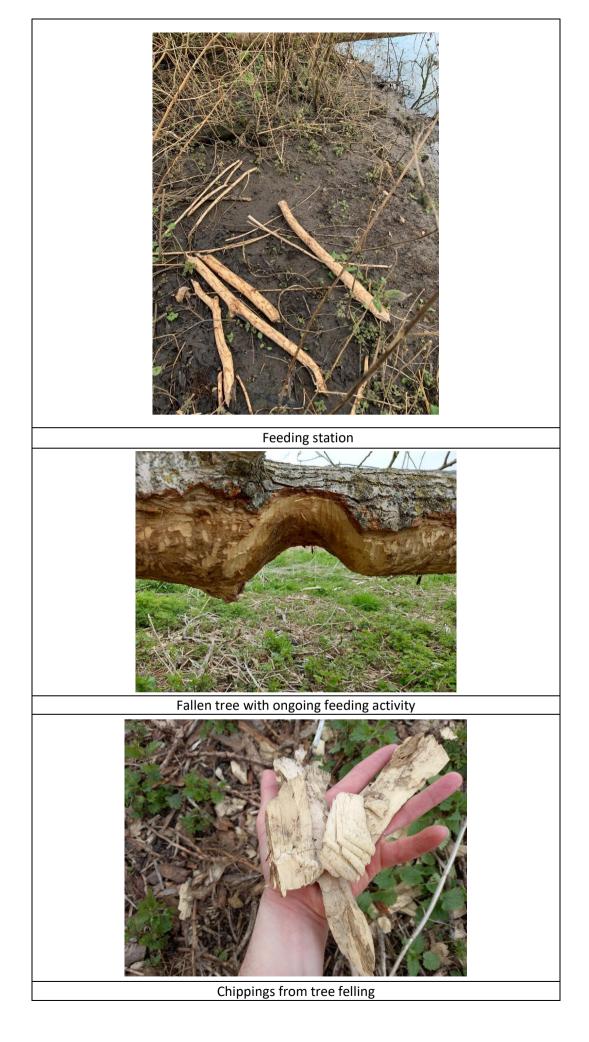


#### Beaver Feeding Signs – Wood Vegetation (True)

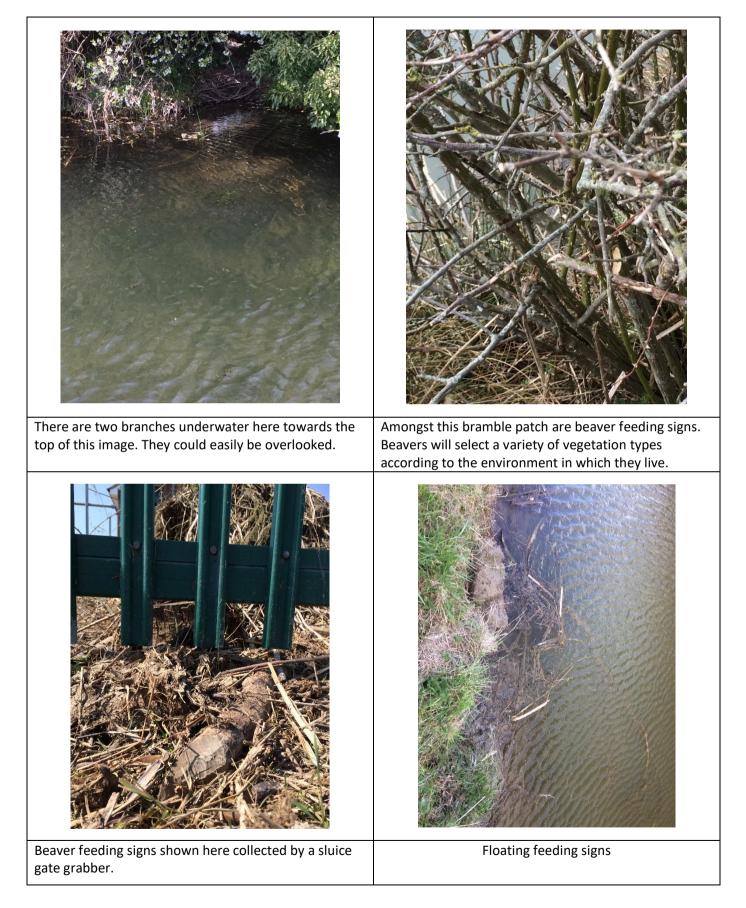




Many thanks Ben Morris for the scats



#### Beaver Feeding Signs – Cryptic Wood Vegetation



#### Beaver Feeding Signs – Wood Vegetation (False)



## Beaver Feeding Signs – Aging Wood Vegetation

There is a national aging scale for wood feeding activity, ranging from 1-10: 1= very recent and 10= over 1 year old. We found that a sign's age depended on the species of wood eaten and the place it was located. Environmental factors were key to how different woods aged.



#### Beaver Feeding Signs – Herb Vegetation (True)



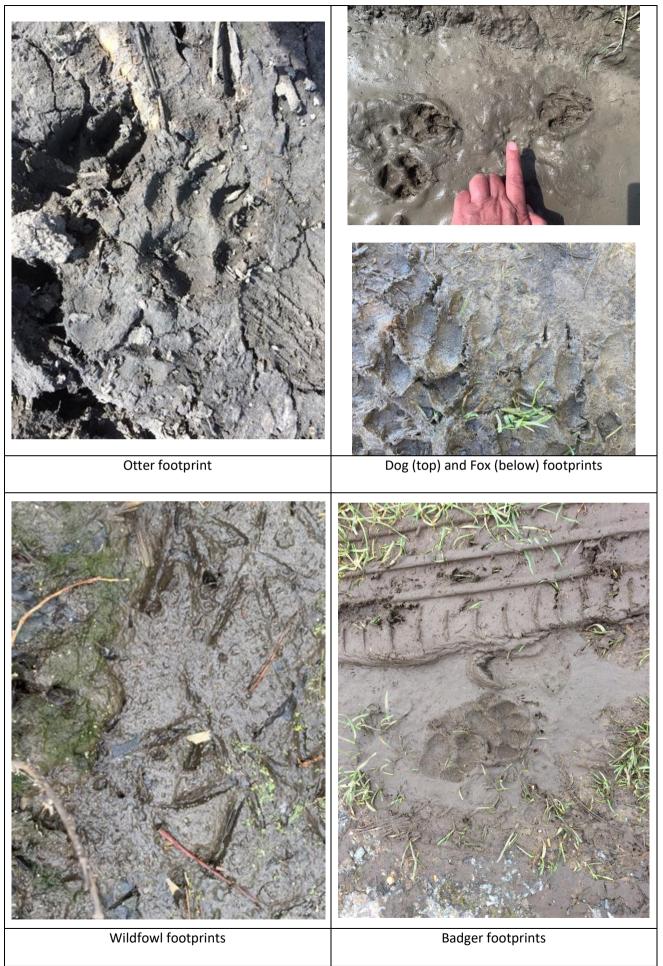
# Beaver Feeding Signs – Herb Vegetation (False)



#### Beaver Footprints (True)



# Beaver Footprints (False)



## Beaver Trails (True)

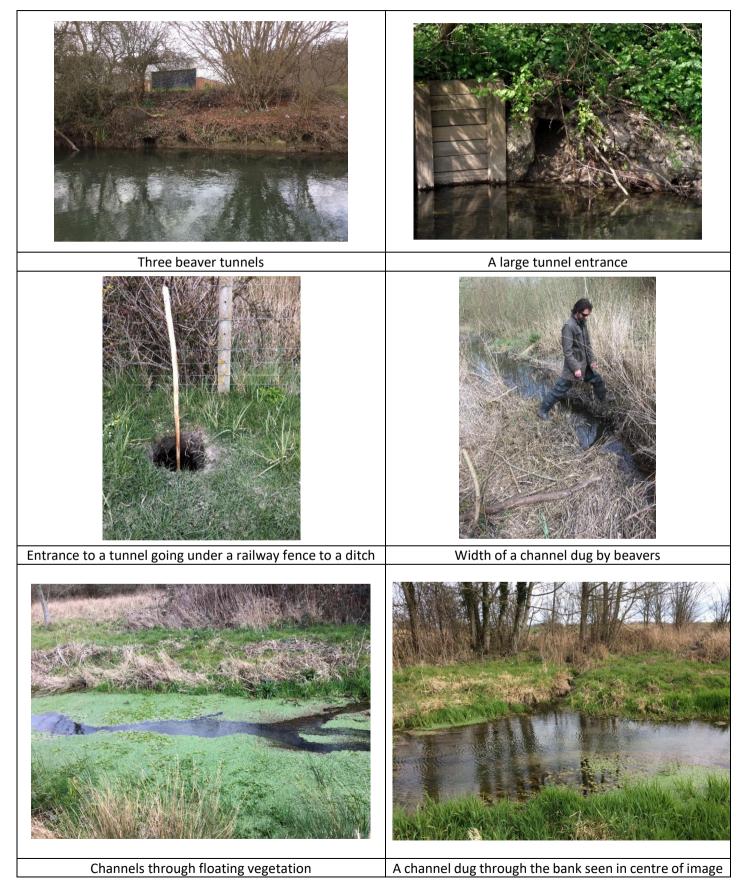


## Beaver Trails (False)



Mixed rabbit, fox, badger and human trails along hedges and across land. These trails very much tend not to go directly from one waterbody to another.

## Beaver Burrows and Channels (True)



## Beaver Burrows and Channels (False)



#### Beaver Lodges and Dams (True)





A lodge in winter

Same lodge in summer

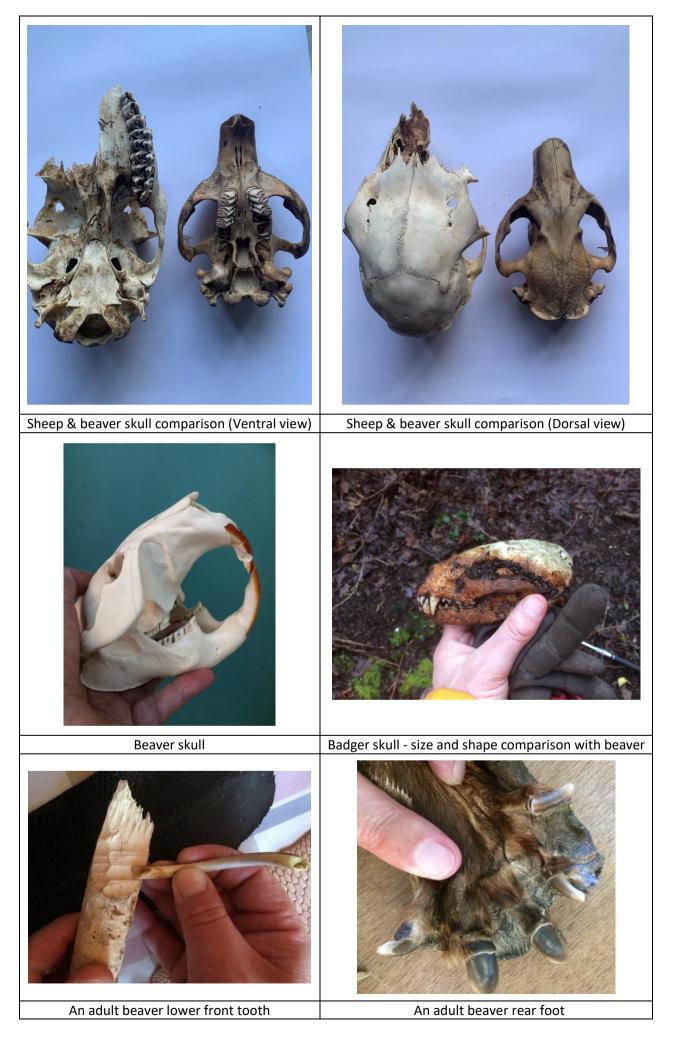


# Beaver Lodges and Dams (False)



## **Beaver Anatomical Features**

Beaver adult	Otter adult - size and shape comparison with beaver
Beaver skull (Ventral view)	Beaver skull (Dorsal view)





Surveying waterways has several hazards – take good care!

We are still unsure here which ecologist these boots belong to? If you recognise these boots found next to a ditch, please get in touch...

## References

Auster RE, Puttock A and Brazier R. 2019. Unravelling perceptions of Eurasian beaver reintroduction in Great Britain. AREA 2019;00:1–12. https://doi.org/10.1111/area.1257612

Bramley Associates. 2018. The Eurasian beaver is back in Cantwareburhrs in Kent. *Mammal News 2018 Review*. Bramley Associates, Manager's House, Ratling Court Farm, Ratling Road, Aylesham, Kent CT3 3HN.

Bramley Associates. 2020. A 2018 Eurasian beaver (*Castor fiber*) survey in Kent. *Kent Field Club Bulletin*. Bramley Associates, Manager's House, Ratling Court Farm, Ratling Road, Aylesham, Kent CT3 3HN.

Bramley Associates. 2022. A 2021 survey of Eurasian Beaver distribution in Hacklinge Marshes, from Deal to Sandwich, Kent. Bramley Associates, Manager's House, Ratling Court Farm, Ratling Road, Aylesham, Kent CT3 3HN.

Campbell, R.D., Harrington, A., Ross, A. and Harrington, L. 2012. Distribution, population assessment and activities of beavers in Tayside. *Scottish Natural Heritage Commissioned Report No. 540.* 

Campbell-Palmer, R., Gow, D., Campbell, R., Dickinson, H., Girling, S., Gurnell, J., & Rosell, F. 2016. *The Eurasian Beaver Handbook, ecology and management of castor fiber*. Exeter, UK: Pelagic Publishing.

Campbell-Palmer, R., Puttock, A., Graham, H., Wilson, K., Schwab, G., Gaywood, M.J. & Brazier, R.E. 2018. Survey of the Tayside area beaver population 2017-2018. *Scottish Natural Heritage Commissioned Report No. 1013*.

Devon Wildlife Trust. 2016. *Beaver Management Strategy*. Devon Wildlife Trust, Cricklepit Mill, Commercial Road, Exeter EX2 4AB.

Natural England. 2021. *Beaver reintroductions in England 2000-2021*. 12<sup>th</sup> August 2021. Natural England Joint Publication JP036.