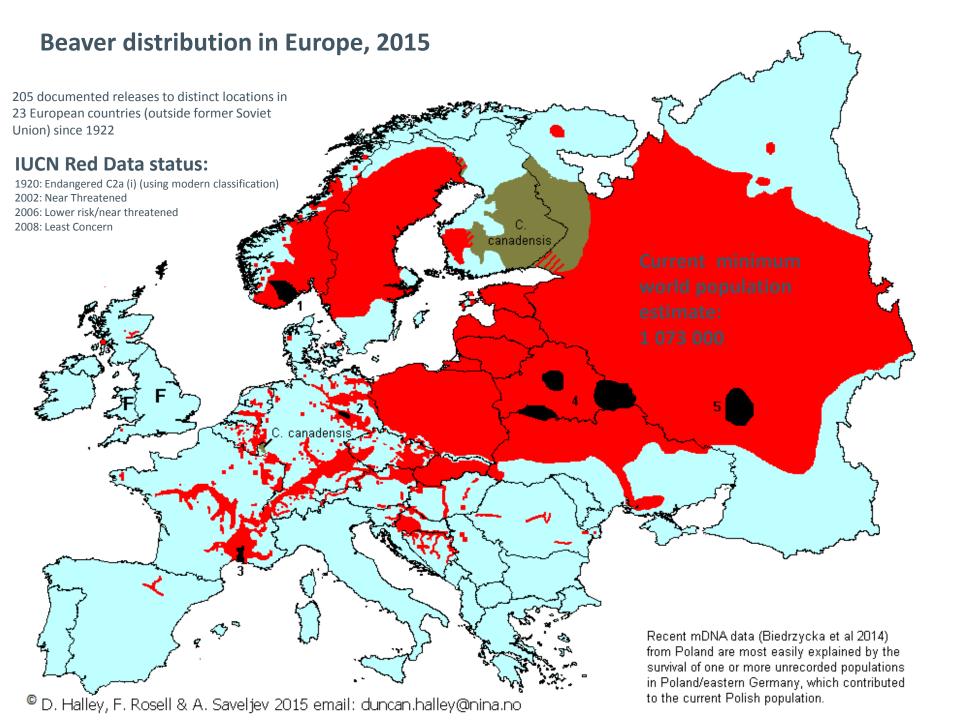
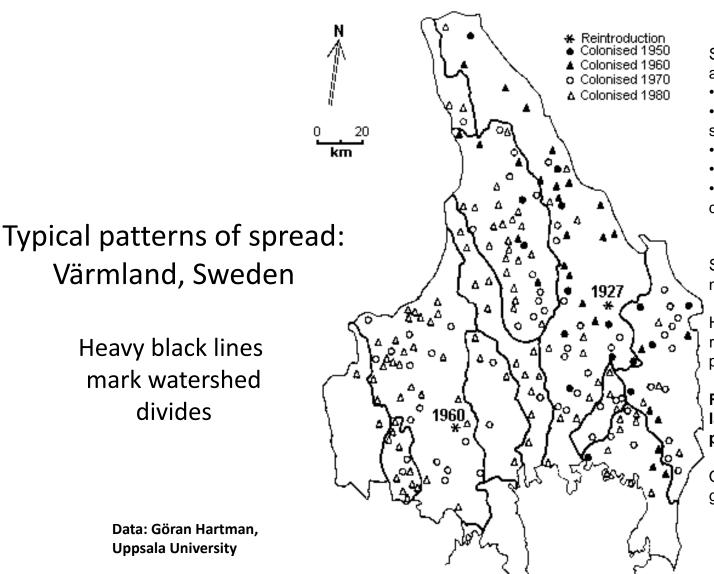




Duncan Halley Norwegian Institute for Nature Researchduncan.halley@nina.no







Värmland, Sweden

Heavy black lines mark watershed divides

> Data: Göran Hartman. **Uppsala University**

Sites occupied early strongly associated with:

- •Riparian deciduous forest
- Low stream gradient/many swings in river course
- •Rich grass and herb layer
- Soft soils
- •Relatively deep water, in which damming is not necessary

Stream gradients over 2% are not normally colonised

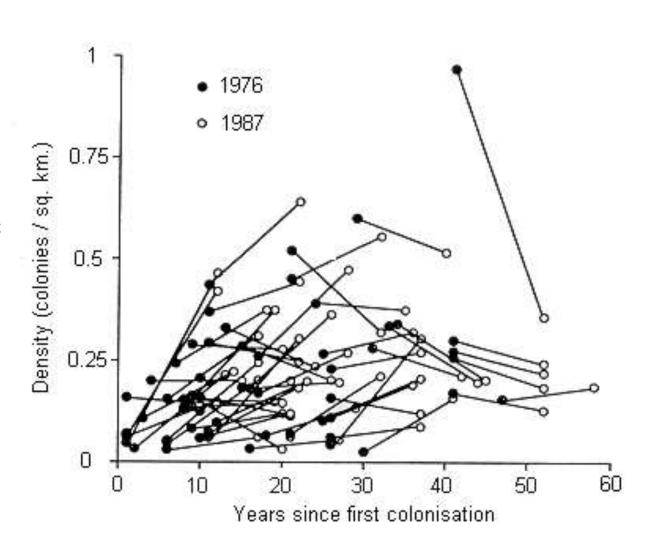
Habitat requirements otherwise relax as population development proceeds on a watershed

Result: most dams are built later in the process of population development.

On most watersheds most beaver groups do not build dams.

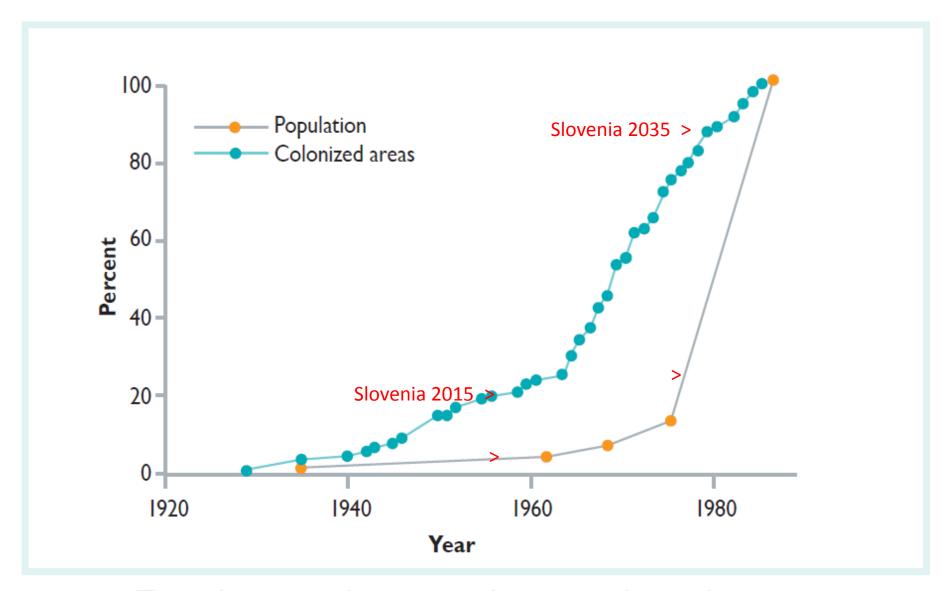
Population development in different populations after colonisation.

General pattern:
0-25 years, fast growth
~ 25-40 years, slow or no growth;
~40 years, some decline



Data: Göran Hartman, Uppsala University





Typical temporal pattern of range and population expansion within a watershed (from Hartman 1994).

Patterns of spread: a hierarchy of preference



Most preferred: still or slow-moving water, no need to dam, abundant food. Can be in areas much used by people, if the beavers are left alone.







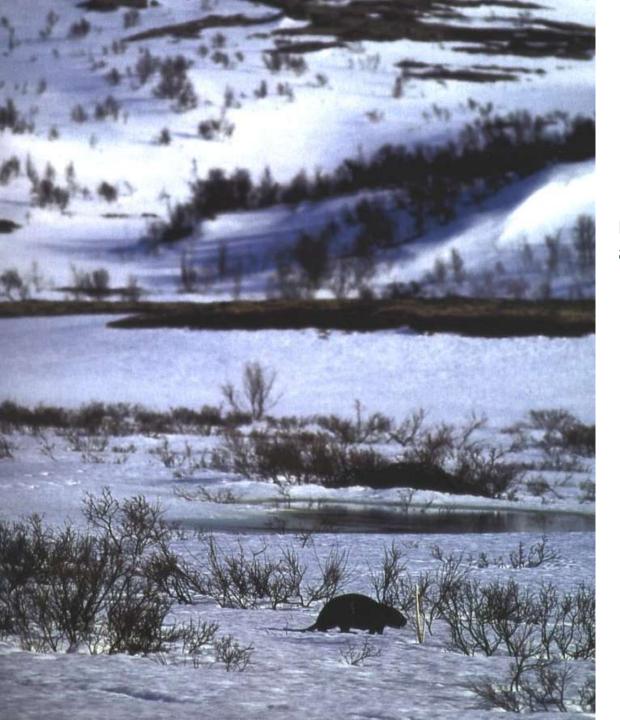












Least preferred: mountain site at treeline, ice for 9 months/year











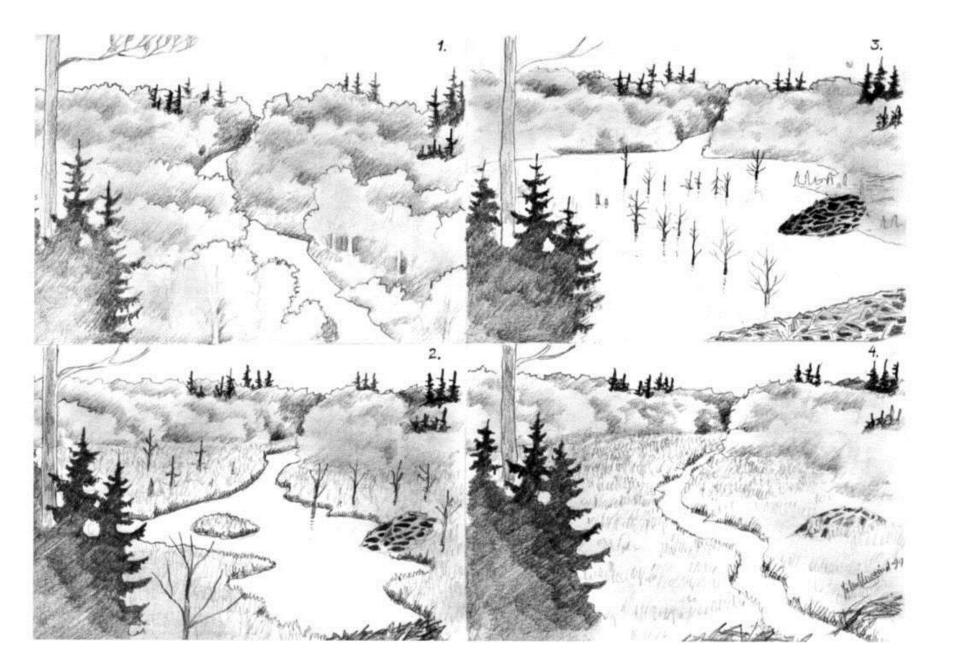




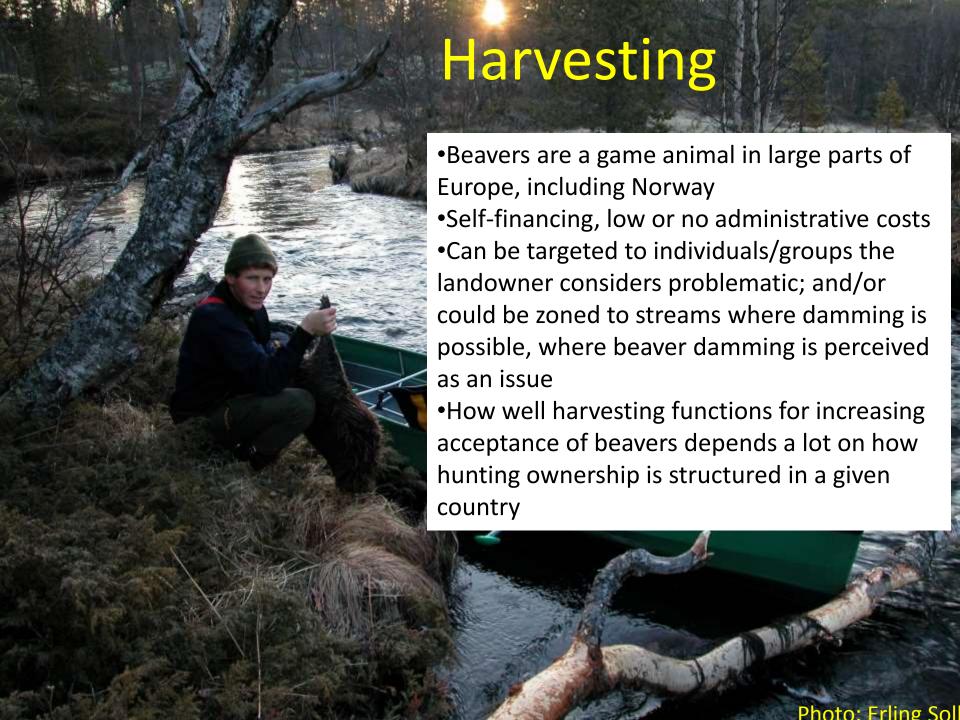








Management



Marinering av beverkjott

MATERIAL POR COLUMN.

Peiks bevergryte

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Bon apel





Separation of beaver and human activities: riparian strips

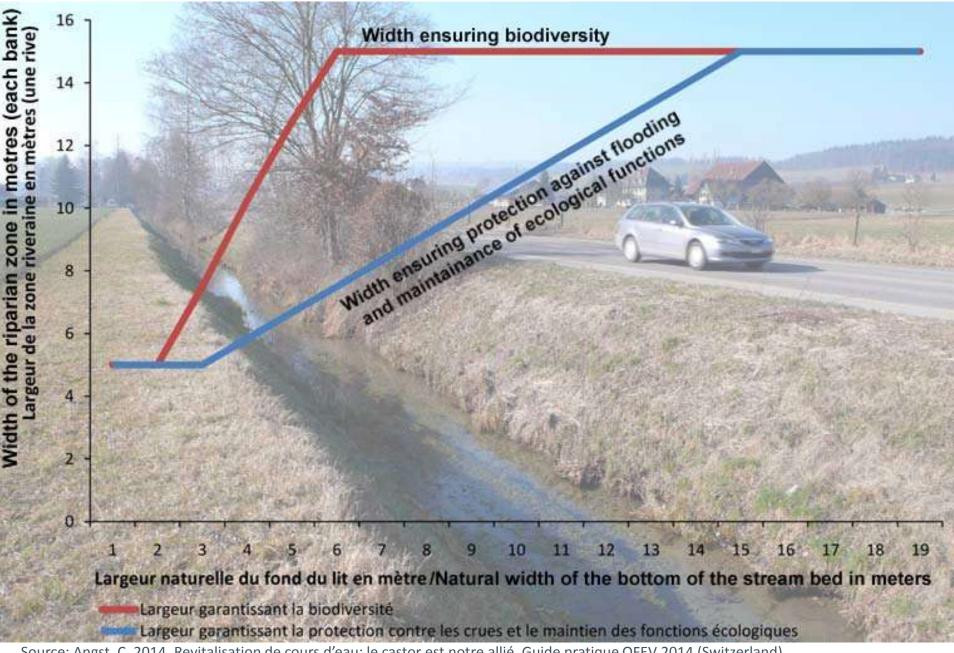
- 95% of foraging is within 5m water (Elmeros et al 2003)
- 90% within 13m and 99% within 20m (Baskin & Sjöberg 2003)
- Main conflict avoidance measure recommended to Council of Europe is establishment of a 20m wide riparian strip (Nolet 1997)
- This separates most beaver activity from most human activity
- It may also be desirable for a number of other environmental reasons (e.g. water quality, reducing erosion)



Source: Angst, C. 2014. Revitalisation de cours d'eau: le castor est notre allié. Guide pratique OFEV 2014 (Switzerland)



• Source: Angst, C. 2014. Revitalisation de cours d'eau: le castor est notre allié. Guide pratique OFEV 2014 (Switzerland)



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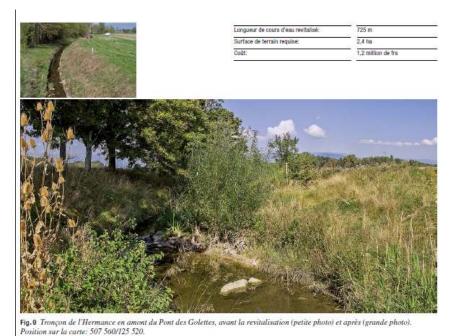




Fig. 10 Cours de l'Urtene à Kernenried (BE) avant la revitalisation (petite photo en haut) et après (grande photo). Position sur la carte: 607 650/211 750.

Source: Angst, C. 2014. Revitalisation de cours d'eau: le castor est notre allié. Guide pratique OFEV 2014 (Switzerland)







Swiss beaver information website (http://www.cscf.ch/cscf/page-20337.html)

https://www.youtube.com/watch?v=iPywEgSDUOc





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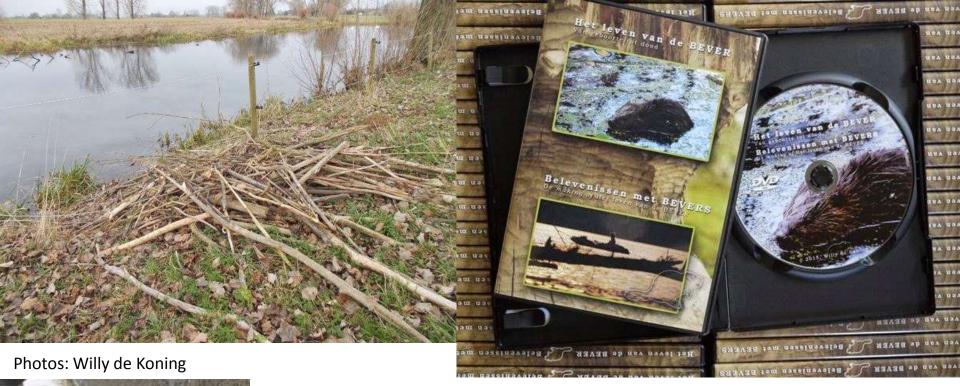
Bayern

www.bibermanagement.de



Bavarian beaver live trap set on beaver trail to recently felled aspen *Populus tremula*





Netherlands: «Living with the beaver» DVD gives information on their habits, and on methods of management (such as electric fencing to protect crops, top left), aimed at Landowners and the general public

The Beaver Restoration Guidebook

Working with Beaver to Restore Streams, Wetlands, and Floodplains

Version 1.02, July 14, 2015



Photo credit: Worth A Dam Foundation (martinezbeavers.org)

Prepared by

US Fish and Wildlife Service National Oceanic and Atmospheric Administration Portland State University US Forest Service Janine Castro Michael Pollock and Chris Jordan Gregory Lewallen Kent Woodruff

Funded by

North Pacific Landscape Conservation Cooperative



http://www.fws.gov/orego nfwo/ToolsForLandowner s/RiverScience/Document s/BRG%20v.1.02.pdf

NINA Rapport 21

Bever - forvaltning av en jakt-, frilufts- og miljøressurs

En håndbok om moderne metoder for praktisk forvaltning av beverbestander

Duncan Halley & Kjetil Bevanger



























Figur 11.6 Ulike for-dammer. Merk robust konstruksjon (noe som utvilsomt lønner seg) samt tilpasning av formen til formen på bekken. Det siste bildet viser en konstruksjon (som ligger i et naturreservat) utstyrt med plattform som å gjør den mer attraktiv, samtidig som den kan tjene som utsiktspunkt for besøkende. Foto: S Lisle / S. Tippie

FINAL REPORT OF THE BEAVER SALMONID WORKING GROUP









State of the Question....

28th JANUARY 2015

Prepared for

The National Species Reintroduction Forum (NSRF)
c/o Scottish Natural Heritage
Great Glen House
Leachkin Road
Inverness
IV3 SNW

Prepared by

The Beaver Salmonid Working Group (BSWG)





State of practice...

'Flow device' in Flanders, Belgium 2014

...and State of the Art



Photos: Skip Lisle



https://www.youtube.com/watch?v=wKdJ7cvCEGU











https://www.youtube.com/watch?v=rx6s4OQRfSk

















Frank Rosell Christof Angst Allard Martinius Gerhard Schwab Skip Lisle Willy de Konig



