

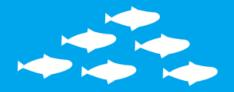




Eradication of alien Signal Crayfish

Experiences from Norway

Roar Sandodden
Researcher and Group-leader
Section for Environmental Restoration and Management,
Norwegian Veterinary Institute



The Norwegian Veterinary Institute

 The Norwegian Veterinary Institute is a research institute in the areas of animal health, fish health and food safety.

- National competence center.
 - Eradication *Gyrodactylus salaris*,Invasive freshwater fiskSignal crayfish



Crayfish Invaders

- Successful invaders
- Indigenous European freshwater crayfish threatened
- North American signal crayfish (Pacifastacus leniusculus) and crayfish plague (Aphanomyces astaci)
- Eradication attempts Chemical!



Information, media strategy

- Cooperation with national and local authorities
- Media strategy
- Possible conflicts and correct information
- Identify the real problem and the solution





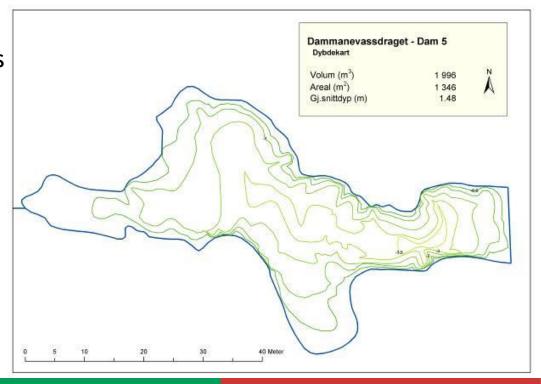
Eradication Strategy

- Laboratory tests versus field trials
- Dilution, dispertion and degradtion
- Complete eradication aim for success



Preparations

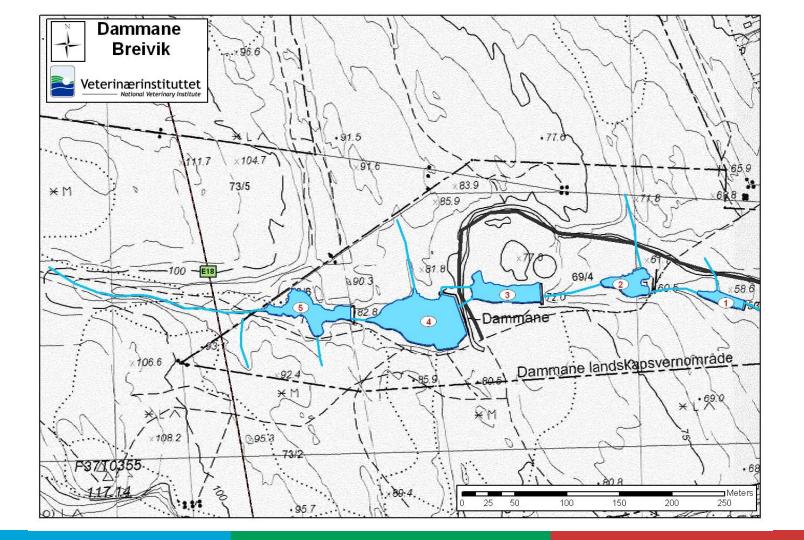
- Mapping of total watershed
- Calculations of water volume
- Production of treamtment maps and treatment plans
- On site toxicity tests



BETAMAX VET. 50 mg/ml

- Cypermethrinbased pharmaceutical
- Syntetic pyrethroids, a common agent in commercial insecticides
- Crayfish extremely sensitive
- Great potential for eradicating crayfish
- No accumulation og biomagnification









v.	Pond 14	Pond 18	Pond 13	Pond 2	Pond 1	Pond 8	
Volume (m3)	6726	2520	1782	3960	1897	370	
Surface area (m2)	2242	1400	990	2200	1054	370	





Noble crayfish eradication plan

Instruks/Retningslinje

Bekjempelsesplan for krepsepest

Mattilsynet

Statens tilsyn for planter, fisk, dyr og næringsmidler





Utarbeldet av ratho	Godkjent av krian	Dokumenfeler Leder for Tilsynsavdelingen	Referanse til kontroliforordningen Artikkel 13	Referanse til kontrolipian
Dokument-ID	Utgave	Instruks/regningslinje for Mattilsynet Bekjempelsesplan for krepsepest	Gyldig fra 03.07.2009	Side 1 av 22

Procedure -What to do?



NINA Rapport 572

Prosedyre ved funn eller mistanke om introduksjon av signalkreps

Iverksetting av tiltak og eventuell friskmelding av lokalitet

Stein I. Johnsen Trude Vrålstad Roar Sandodden















INTEGRITET

Samerbeid og kunnskap for framtides miljøløtninger





Thank you!





