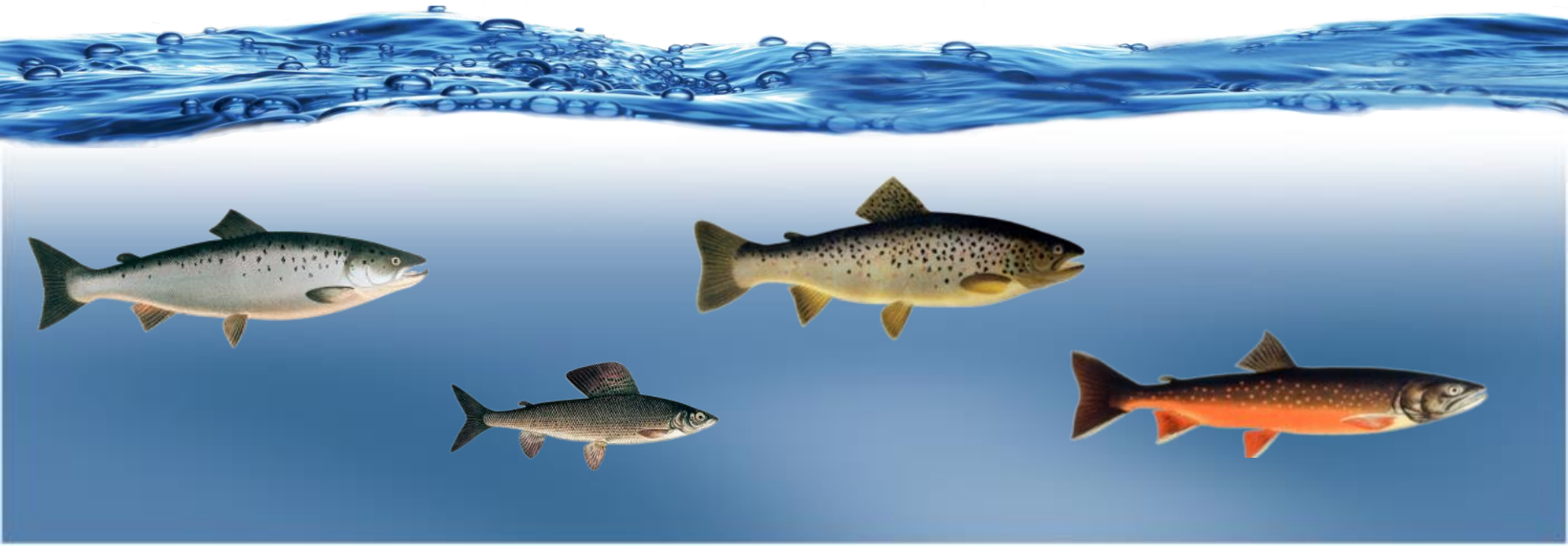


Sustainable fishing of Salmonidae in the Lake Saimaa District 2.4.2014



General information

Duration:

- 1.10.2011-30.6.2014

Funding:

- | | |
|---------------------------------------|-----------|
| • National | 181 035 e |
| • EC co-funding | 180 635 e |
| • Life+ information and communication | |
| • Total budget | 361 670 e |

Project's implementors and staff

Coordinating beneficiary:

- Centre for Economic Development, Transport and the Environment for North Karelia

Associated beneficiaries:

- Centres for Economic Development, Transport and the Environment (South-East, North-Savo and South-Savo)

Staff:

- Project manager Mr Mirko Laakkonen
- Project assistant Mr Juho Rajala
- Project assistant Ms Sirpa Kaunisto

Target groups and species

Target groups:

- 20 fishery districts
- 44 owner units of waters
- 18 fishing clubs
- fishery consultation organizations

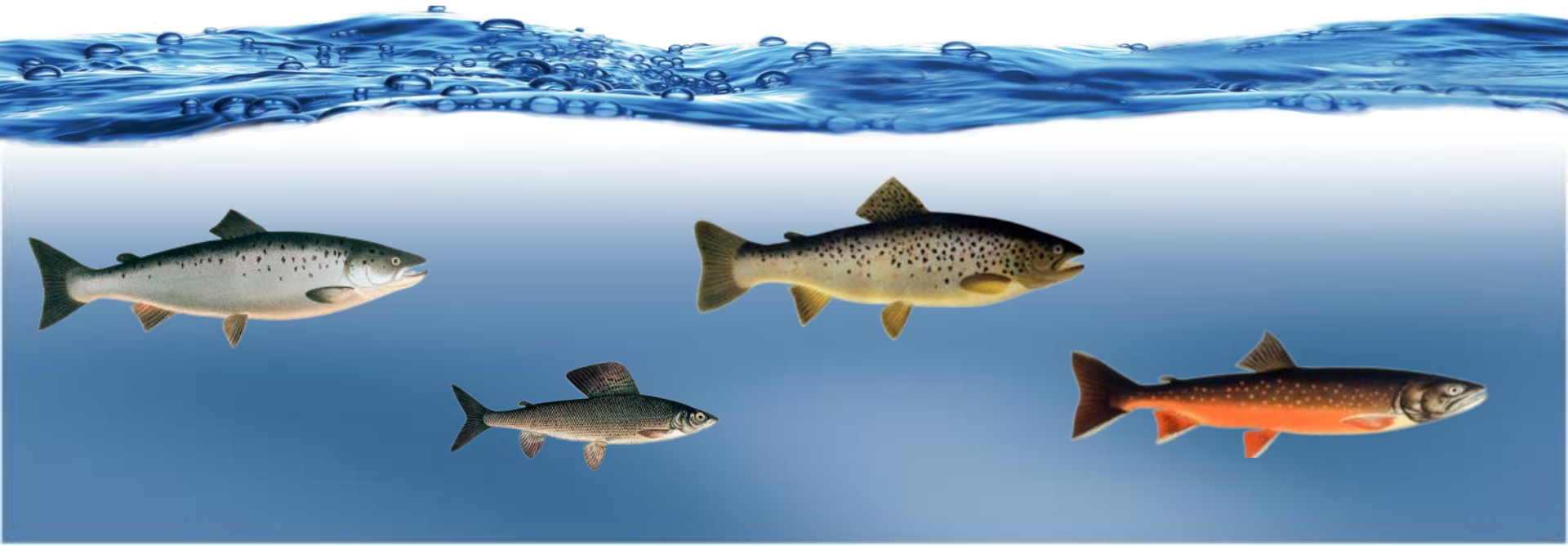
Target species:

- Landlocked salmon (critically endangered)
- Freshwater brown trout (endangered)
- Arctic char (critically endangered)
- Grayling (near threatened)

General objective of the project

”To maintain the genetic diversity of the valuable salmon populations in the Lake Saimaa region.”

Endangered Salmonidae in the Lake Saimaa District



Landlocked salmon (*Salmo salar m. sebago*)

Conservation status

- Critically endangered

Minimum landing size

- 60 cm





Landlocked salmon stocks in Finland

- Lake Pielinen
- Lake Saimaa

Landlocked salmon in Lake Pielinen

Fish barriers

River Lieksanjoki

Lake Pielinen

- Feeding migration

- Lieksankoski dam
- Pankakoski hydroelectric power-plant

- Reproduction area
 - Käpykoski Rapids
 - Naarakoski Rapids
 - Saarikoski Rapids

- Destroyed former reproduction area
 - Lieksankoski Rapids
 - Pankakoski Rapids

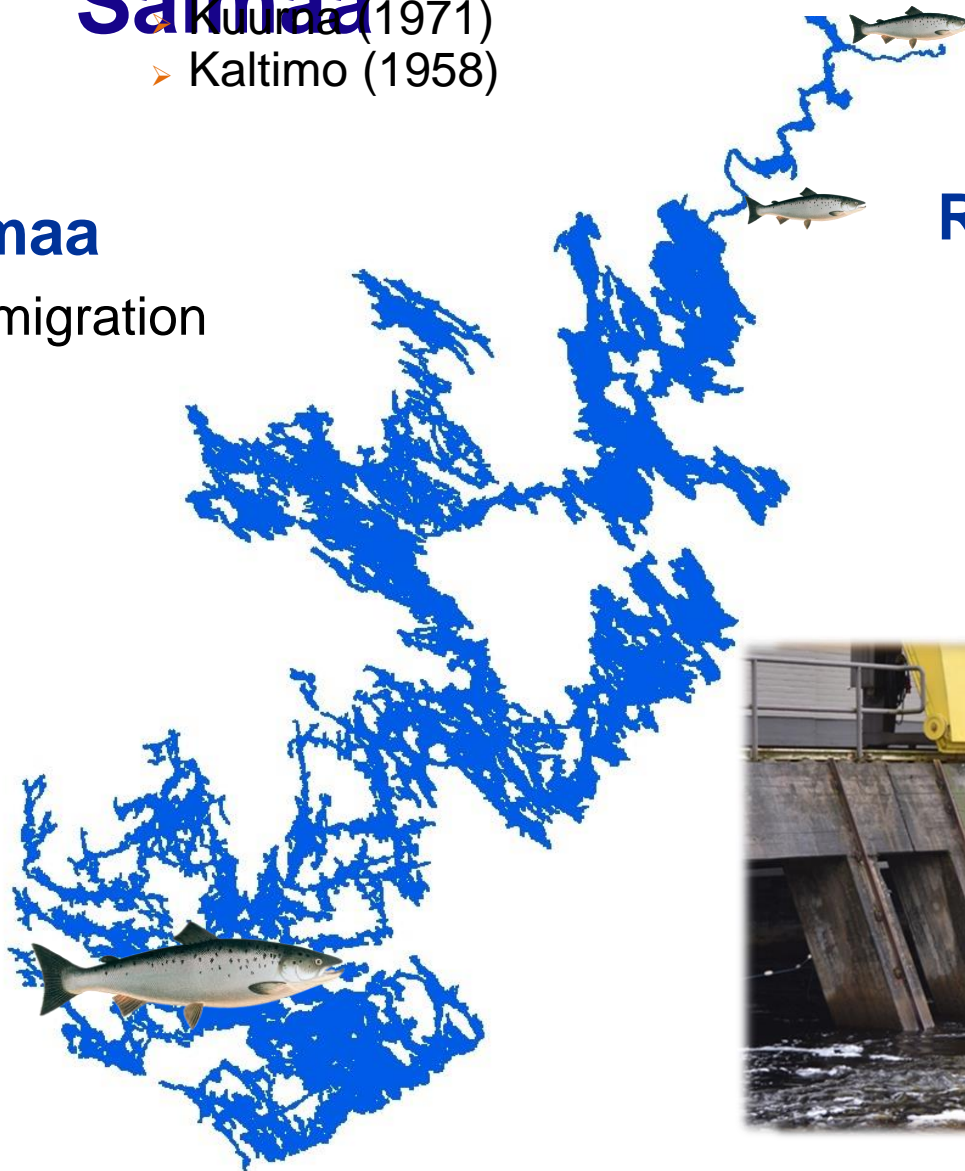


Endangered salmon in Lake Saimaa

- Hydroelectric power-plants
 - Kuusimäki (1971)
 - Kaltimo (1958)

Lake Saimaa

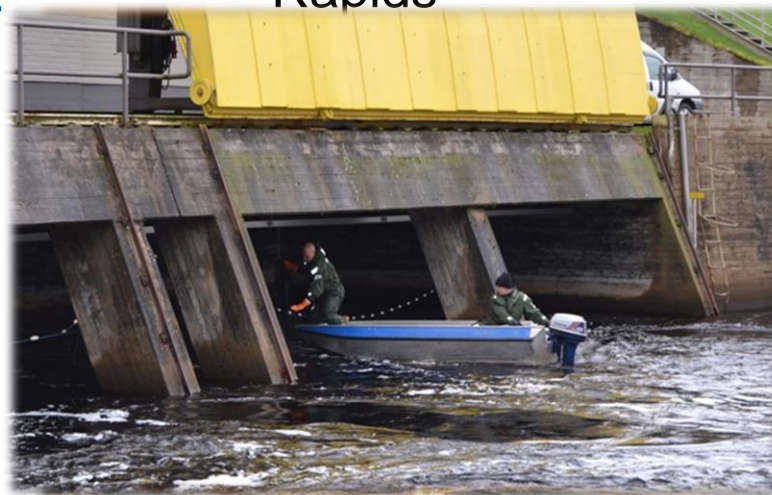
- Feeding migration



- Reproduction area
 - Lots of rapids

River Pielisjoki

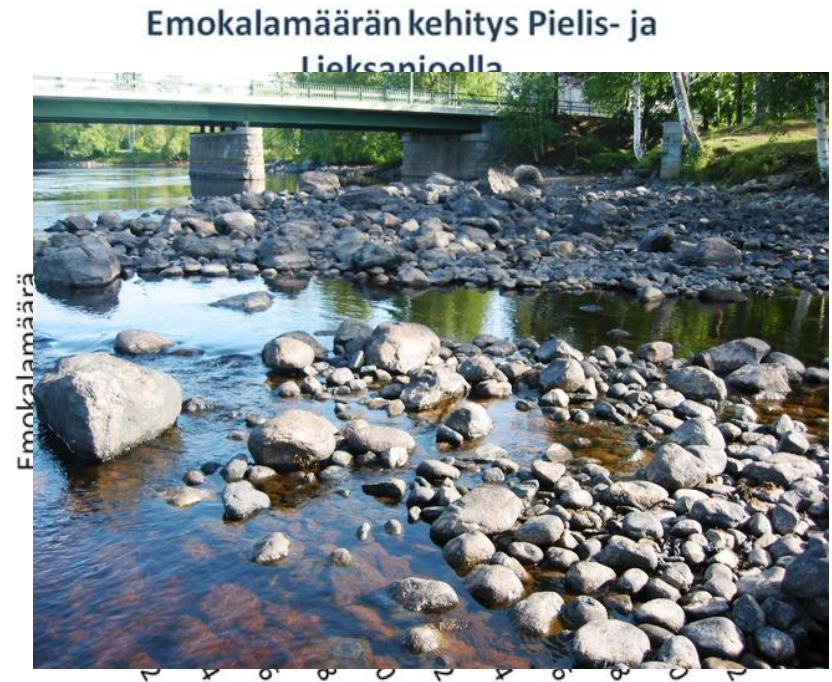
- Most of the reproduction areas destroyed
- Joensuun kaupunginkosket Rapids



Landlocked salmon (*Salmo salar m. sebago*)

Current state

- Natural life cycle prevented
 - Access to the reproduction areas prevented
 - Many of the reproduction areas destroyed
- Brood fish harvest gives information about the state of the stock



Freshwater brown trout (*Salmo trutta m. lacustris*)

Conservation status

- Endangered

Minimum landing size

- 60 cm

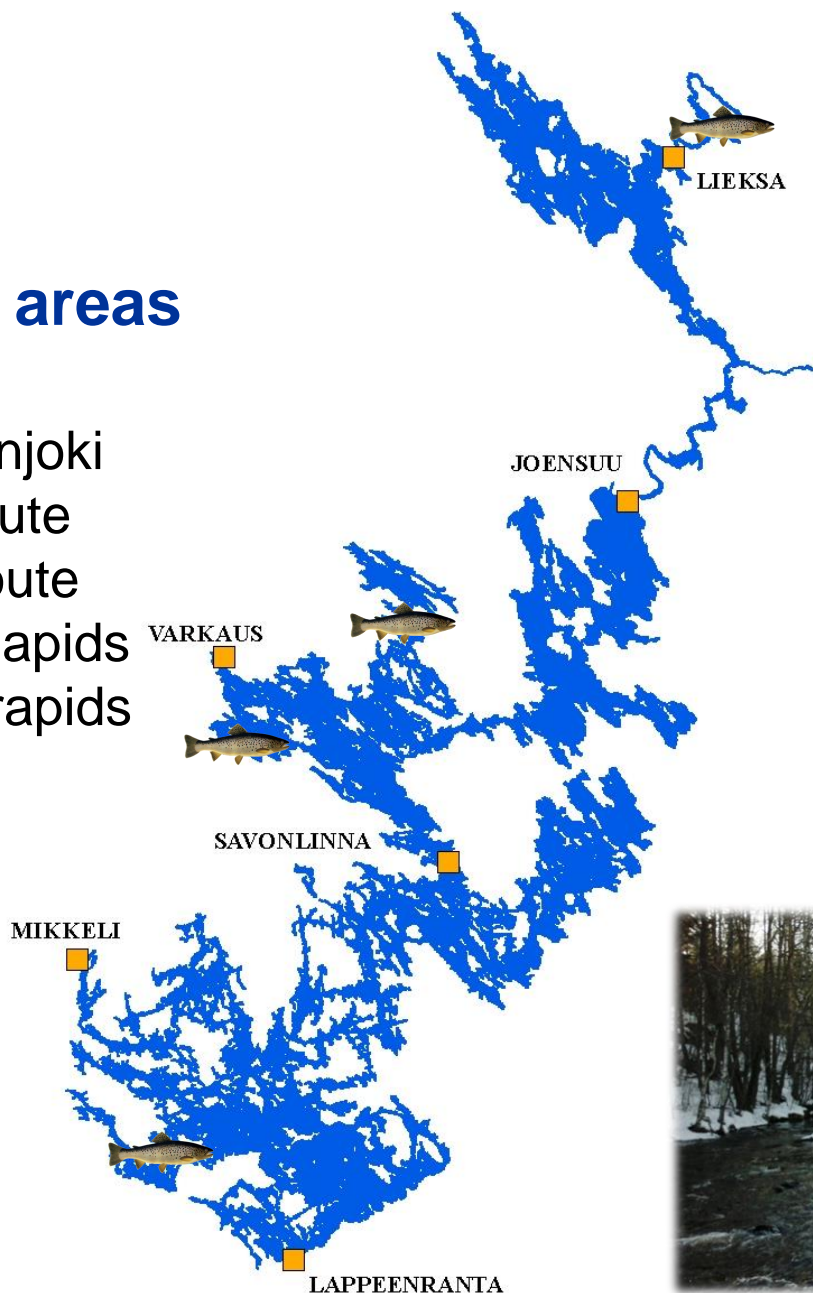


Reproduction areas

- Key areas
 - River Lieksanjoki
 - Heinävesi route
 - Joroisvirta route
 - Partakoski Rapids
- Several smaller rapids

Feeding area

- Migrates from rivers to lakes



Freshwater brown trout (*Salmo trutta m. lacustris*)

Current state

- Many of the most important reproduction areas destroyed
- Access to the reproduction areas partially prevented
- Natural reproduction rates very low
 - High pressure from fishing in the lake areas limits the number of reproducing fish



Grayling

(Thymallus thymallus)

Conservation status

- Near threatened

Minimum landing size

- 35 cm



Arctic char (*Salvelinus alpinus*)

Conservation status

- Critically endangered

Fishing is totally prohibited



What we have done?

Meetings with Fishery districts:

- more than 100 meetings
- 60 fisheries management proposals

Other meetings, seminars and events:

- taking part in fairs and other events
- dozens of seminars
- taking part in preparation of management plan for freshwater brown trout in Eastern Finland

Communication:

- good results, lots of articles etc.

Examples of proposed measures

- Banning the catching of landlocked salmon and brown trout with adipose fins, regardless of the size of the fish
- Minimum landing sizes
- Fishing quotas
- Restriction on the number of hooks per lure
- Banning the cutting or filleting of landlocked salmon, brown trout, grayling and Saimaa arctic char prior to returning to the shore

Examples of proposed measures

- Banning salmon line fishing year-round.
- Setting a minimum mesh size for surface and midwater gillnets at 80mm (with the exception of vendace nets)
- Migration routes (narrows and river deltas)
- Conservation areas around islands and near the shore (within 100 metres of the shore), or alternatively a ban on fishing with nets that have a mesh size of less than 55mm. (Grayling habitats)
- Other conservation areas

Examples of proposed measures

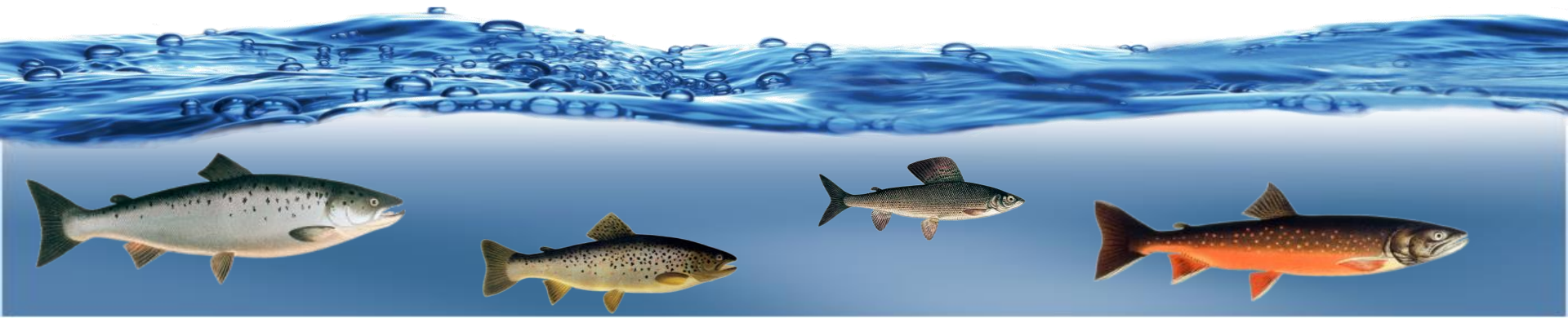
- Instruction for fishermen to use traps that allow fish to be released alive when necessary (such as fykes and wire mesh fish traps)
- restrictions on the number of nets used per fisherman. Our recommendation is a maximum of four nets (in total 120 metres) per recreational fisherman
- In certain key areas, ban gillnet fishing using nets with a mesh size of less than 80mm (excluding vendace nets) from 1 September until the lake freezes over



Saimaan lohikalojen
KESTÄVÄ KALASTUS

- Restoration of the natural reproduction
- Increase in brood fish numbers
 - Attitude of the fishermen in a key role
- Restoration of the breeding areas
- Bypassing fish barriers
- More research!

Future aims





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Good practices for sustainable fishing



Sustainable fishing

”Fish stocks are harvested in a way which does not affect the regeneration rate of the stock and the total catch does not decline in the future.”

Good practices for sustainable fishing

All fishing methods:

- Respect the minimum landing size
 - Avoid catching undersized fish
- Fish for different species
 - Prefer vital, naturally reproducing species
- Do not take more fish than you need



Good practices for sustainable fishing

All fishing methods:

- Release all landlocked salmon and freshwater brown trout specimen with adipose fin
 - Fish with adipose fin ensure the future of the stock (Naturally born or stocked in the river)
 - Fish with clipped adipose fin are stocked for fishing



Good practices for sustainable fishing

How to release fish:

- Use fishing pliers to release the fish without taking it away from water
- Moist your hands if you need to touch the fish
- Use a knot-free, rubber-coated landing net
- Use of water container makes the release easier



Good practices for sustainable fishing

Lure fishing

- Set yourself a catch quota
 - 1-2 Salmonidae per day
 - 5-10 Salmonidae per year



Good practices for sustainable fishing

Lure fishing

- Reduce hooks in lures
 - Single hooks
 - Only one treble hook
- Less hooks prevent eye and gill damage
- Fish are easier and faster to release



Good practices for sustainable fishing

Passive fishing

- Reduce the number of gill nets
 - 4 gill nets is enough for recreational fisherman
- Choose a gill net with a mesh size that correlates to the minimum landing size
 - Landlocked salmon 60 cm / 80 mm
 - Pikeperch 45 cm / 60mm



Good practices for sustainable fishing

Passive fishing

- Prefer passive traps from which fish can be released alive
 - Fyke
 - Fish trap
- Do not use longlines
 - Fish will not survive



Thank you for your attention!

www.jarvilohi.fi (also in English and Russian)

www.facebook.com/saimaanlohikalat

