



# Perch and Pikeperch questionnaire

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# 1. Is your company producing:

- Perch: 4
- Pikeperch: 2
- Equipment: 2
- Feed: 1

## When did activities related to percids start?

- 1: (pikeperch) 2002
- 2: (perch) 2007
- 3: (feed) 2005
- 4: (equipment) 2007
- 5: (perch) 2005
- 6: (equipment+perch) 2007
- 7: (perch+pikeperch) 1980

# Is interest on perch production

- Small (mainly pikeperch producers)
- Medium (mainly equipment producers)
- High (mainly perch producers)
  
- Generally constant or increasing interest

# Is interest on pikeperch production

- Small (one equipment and perch producer)
- Medium (perch and feed producers)
- High (pikeperch producers)
  
- Generally constant or increasing interest

## Is the economy in your percid activities acceptable ?

- 1: (pikeperch) acceptable, but expect better result using recirculation
- 2: (perch) Not at the moment, but we have just commenced production, but once we reach capacity within the next year or two, it should be economically viable.
- 3: (feed) Yes
- 4: (equipment) I think and hope so (see answer to question 6).
- 5: (perch) The scale of my farm is so small that is too early to say something about it
- 6: (equipment+perch) Not yet (see question 6).
- 7: (perch+pikeperch) I have worked from 1980 to 1991 with perch and pike perch, the latter with excellent economy (fingerling production for restocking).

# What is the main economic constraint in your production and do you have an idea on how to improve economy?

- 1: (pikeperch) Loss of fingerlings from ponds during harvesting
- 2: (perch) Labour and electricity costs are the main ongoing economic costs, but initial capital investment is the over-riding constraint.
- 4: (equipment) The price of alive pikeperch (800 g-1000 g/pikeperch) must exceed 7 € to produce pikeperch commercially acceptable in RAS (500 t/a) built by UFT AG
- 5: (perch) For now is the basic one: find a good and cheap water source. The answer could be a recirculating system.
- 6: (equipment+perch) Basically we are a supplier of RAS, but act also as future fish farmer in our own systems. As perch is an interesting species for us, the supply of perch fingerlings is actually the main economic constraint followed by the feed. Therefore we think about an own hatchery program for perch.
- 7: (perch+pikeperch) Complete hatchery cycle.

# What are the main biological constraints in your production?

- 1: (pikeperch) Low survival rate and loss of fingerlings during harvesting from ponds
- 2: (perch) Because we recirculate our water, biofiltration is our main concern and limiting factor. Disease of course is another factor and this too is linked in with the biofiltration process. With regard to the fish lifecycle our main constraint is the first feeding and swim bladder inflation stages
- 5: (perch) Cannibalism
- 6: (equipment+perch) No experiences yet.
- 7: (perch+pikeperch) Complete hatchery cycle, like in marine fish, off season spawning.

## Do you use own broodstock or purchase egg or larvae?

- 1: (pikeperch) Own broodstock
- 2: (perch) We have our own supply of broodstock
- 5: (perch) Own broodstock and eggs collected from wild Not yet.
- 6: (equipment+perch) Not yet.
- 7: (perch+pikeperch) Own

## Do you raise larvae from hatching or buy fingerlings?

- 1: (pikeperch) Raise larvae
- 2: (perch) Raise larvae:
- 5: (perch) From hatching
- 6: (equipment+perch) Both opportunities would be possible
- 7: (perch+pikeperch) Own

## Do you raise larvae in indoor systems or ponds?

- 1: (pikeperch) In ponds
- 2: (perch) Both. But we are concentrating on an indoor system.
- 5: (perch) Indoor
- 6: (equipment+perch) Planned: Indoor RAS
- 7: (perch+pikeperch) Both

# Is on-growing in recirculated systems or outdoor ponds?

- 1: (pikeperch) in ponds
- 2: (perch) We do not on-grow.
- 5: (perch) Recirculated system
- 6: (equipment+perch) Planned: Indoor RAS
- 7: (perch+pikeperch) In that time outdoors, now they have both.

# At what size do you sell your fish?

- 1: (pikeperch) 1-2kg
- 2: (perch) 1 – 2g fry.
- 5: (perch) 2-5gr
- 6: (equipment+perch) 100g
- 7: (perch+pikeperch) In that time mostly a) 2.5 cm and b) 1 year old and 12 to 20 cm.

# How do you sell your fish?

- 1: (pikeperch) Alive and fresh on ice
- 2: (perch) Direct to an on-grower.
- 5: (perch) Alive
- 6: (equipment+perch) Filet

## What are your top priorities for a research effort?

- 1: (pikeperch) Rearing of larvae in recirculating systems and on-growing of fingerlings in pond monoculture
- 2: (perch)
  - Broodstock development
  - First feeding stages
  - Innovation with micro diets and feeds.
  - Swim bladder inflation
- 5: (perch) Husbandry protocols
- 6: (equipment+perch) Year round reproduction and fingerling supply
- 7: (perch+pikeperch) Complete hatchery cycle, which shouldn't be difficult and off season spawning.