

Aqua Case

Carelian caviar

Exercise

Estimating the amount of juveniles
needed for production of caviar

Learning outcomes

- to understand how much material is needed to reach the target production
- to understand the importance of accurate production parameter calculations
- to realize the needed tank capacity as possible physical restraint of production

The challenge

- As a sturgeon farm manager you need to make an estimate of needed number of individuals that should be produced annually to reach the annual target production of 5000 kg of caviar

Questions to be answered

- How many fingerlings must be produced annually?
- What is the final tank capacity needed?
- What kind of uncertainties are there in the calculations?
- Is it possible to produce 5 tons of caviar every year in the farm using the current tank capacity? If not, what is your suggestion to do to reach the goal.

In addition to the case the following information is supplied

- Use the maximum values given for mortality
- Sex ratio is 50:50
- Use the average value for eggs/kg per female