

**SOME INFORMATION ON A PRELIMINARY TEST
OF REARING BELUGA (HUSO HUSO)
IN RAS IN CROATIA**

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Area RAS: 1,500 m²

Small pools: circular HDPE, 8 pcs of 2.7m³

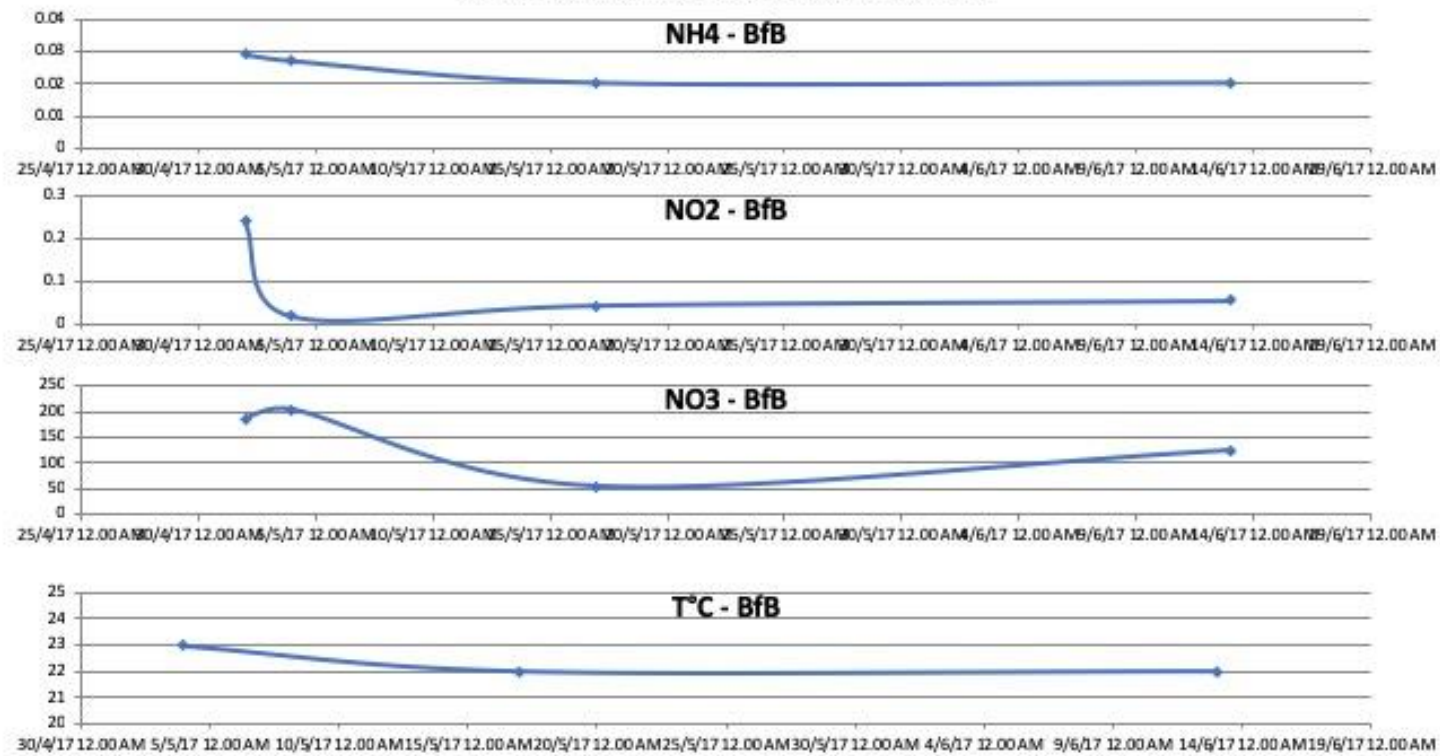
Large pools: circular HDPE 16 pcs, 27.3 m³

Projected ~~for~~ recirculation: 99.5%

Water adding: from underground wells



CHEMICAL AND PHYSICAL DATA: BIOFILTER

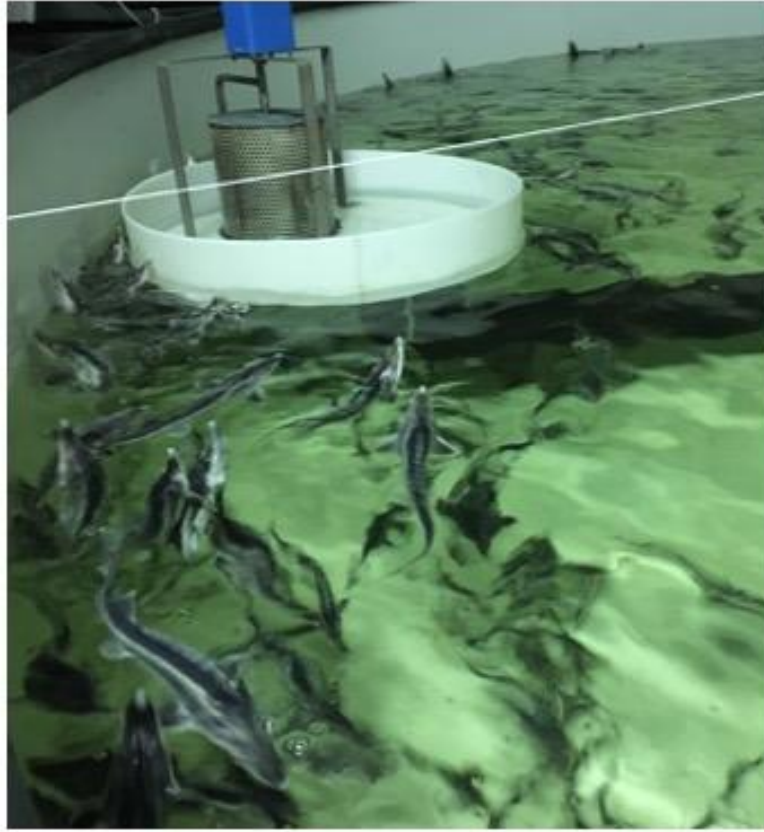


Rearing tank

	pH	NH4	NO2	NO3	T°C
MIN	8.10	0.01	0.04	5.30	20.50
MED	8.25	0.14	0.78	35.24	23.33
MAX	8.51	0.33	2.00	157.20	24.00

MAIN PARAMETERS OF THE REARING TEST

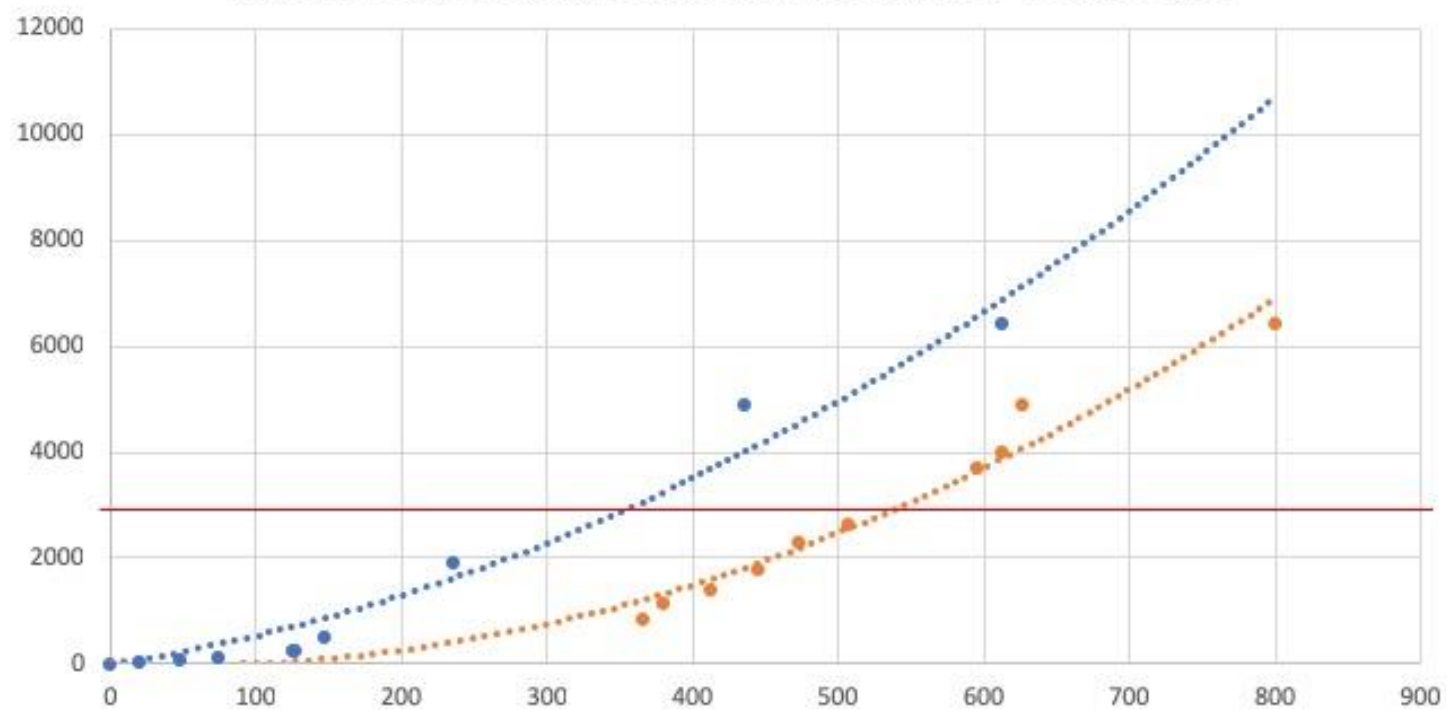
- Start: 28/02/2017
- RAS system - small tanks: 2500 fingerlings (5-7g)
- RAS system - big tanks : 200 (850g)
- Feeding: commercial feed ad libitum (Aller Aqua, Naturalleva)
- MORTALITY:
- Transferred to external pond: ???
- Last biometry: ???



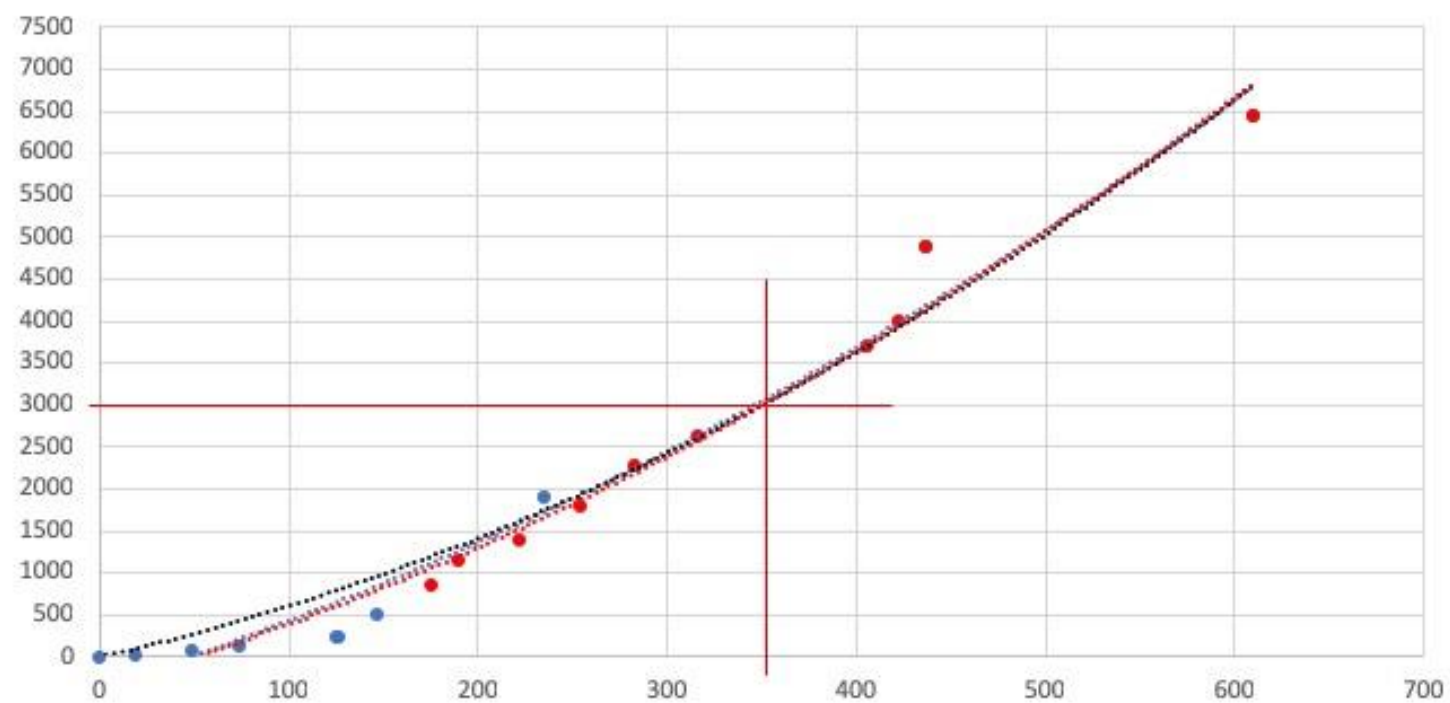




Huso huso growths (g): small and big with their relative ages



Huso huso – cumulated growths (g)



PROS

FISH:

- High resistance to chemicals
- Easy handling
- Active feeding
- Good conversion factor
- Fast growers
- No parasites/pathologies

RAS:

- Suitable tanks (small & big)
- Good T°C control
- Good O2 control

CONS

FISH:

- Fingerlings not easy to find
- Weaned fingerlings expensive
- Difficult larval weaning

RAS:

- Difficult to start
- Long time to stability
- Huge daily water renewal
- High energy consumption (pumps)
- Pipes embedded in the floor

CONCLUSIONS

FISH:

- Can reach the average weight of 3,000 g in 1 year
- No severe pathologies/parasites
- The name ("beluga") is a famous brand
- Need to:
 - evaluate true % of survival
 - net edible biomass after processing (fillets)
 - taste and consistency of the flesh
 - market acceptability (size, processing, taste)
 - economic evaluation of the whole process
 - Identify suitable price

RAS:

Must be improved/adapted according to identified gaps