



NATURESANDER - The effect of pikeperch (*Sander lucioperca*) broodstock origin on their ability to express natural reproductive behaviour

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KNOWLEDGE NEED

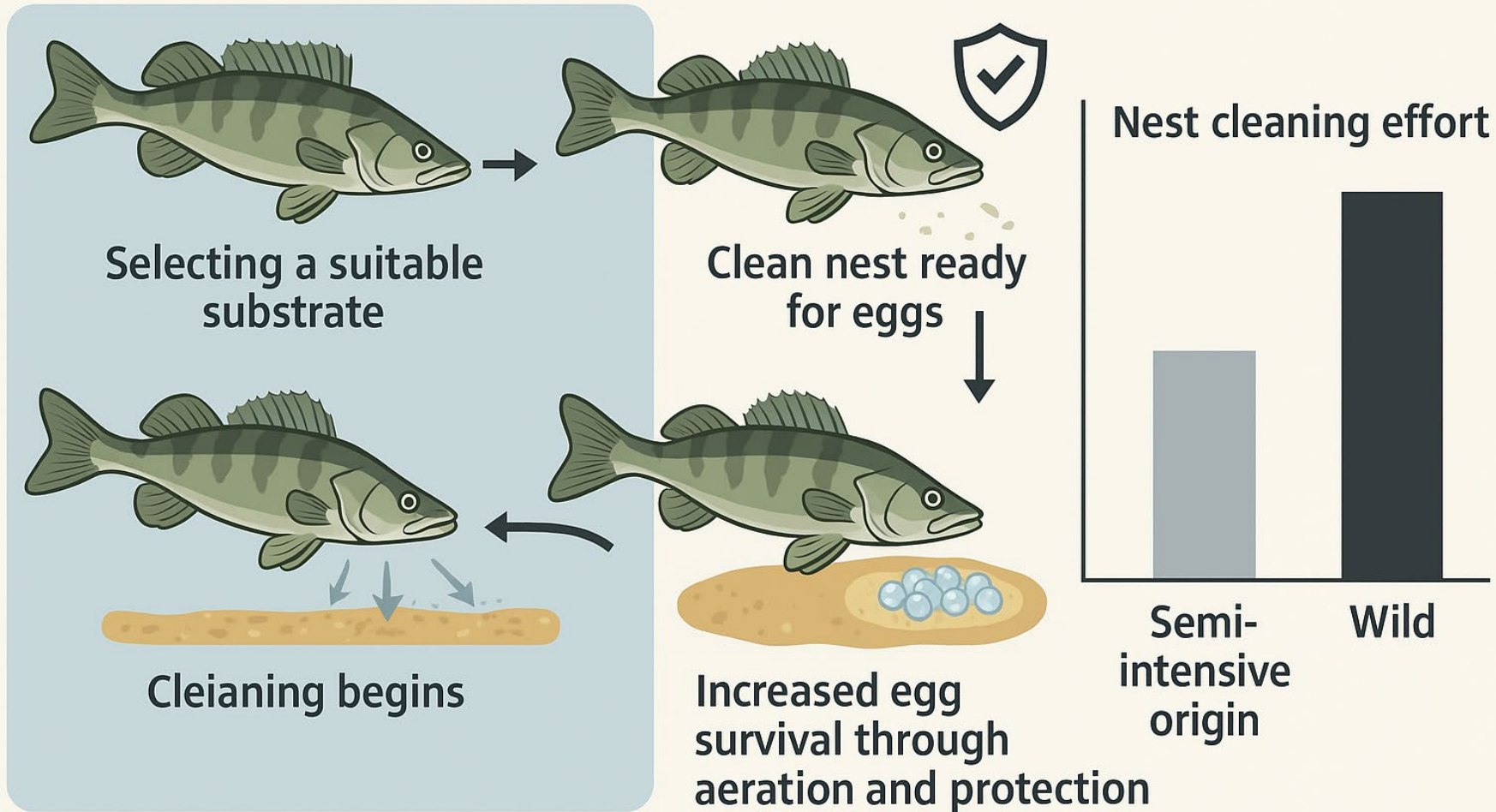
How the aquaculture protocols suppress the reproductive behaviour of pikeperch



SOLUTION (RESULT)

Pikeperch of Semi-intensive Origin Clean Nests Less Before Spawning

Previous findings indicated selective behavior towards spawning substrate

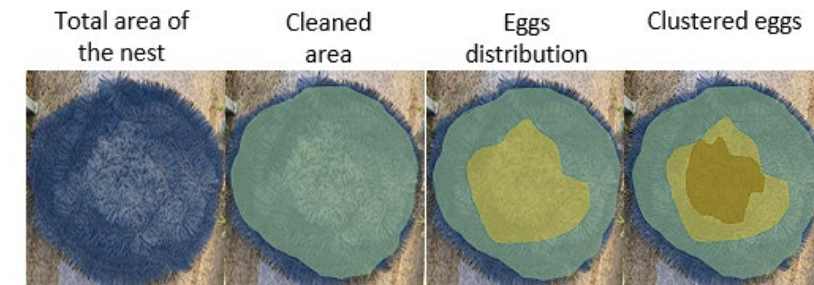
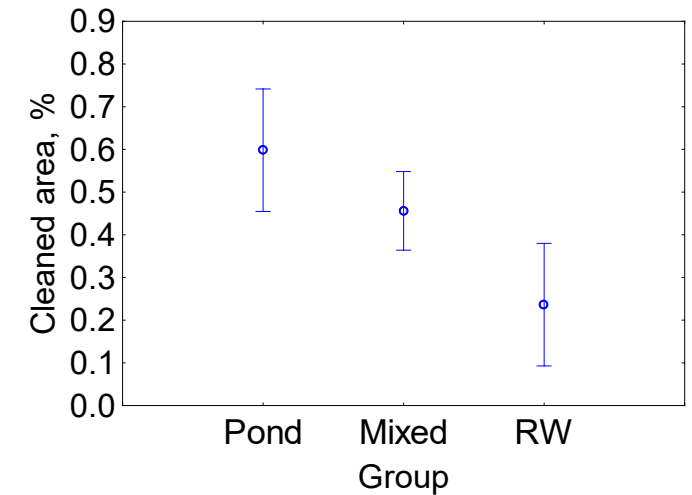
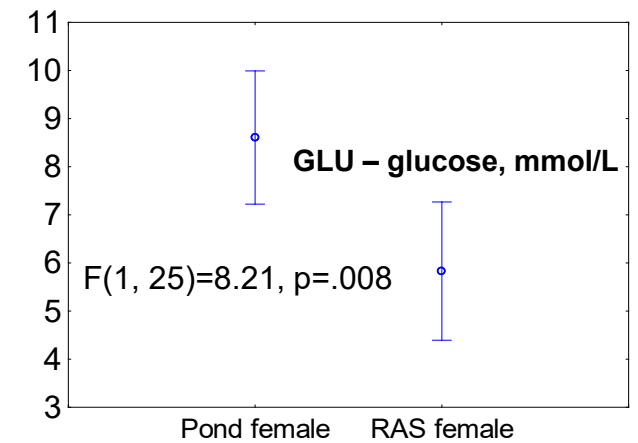
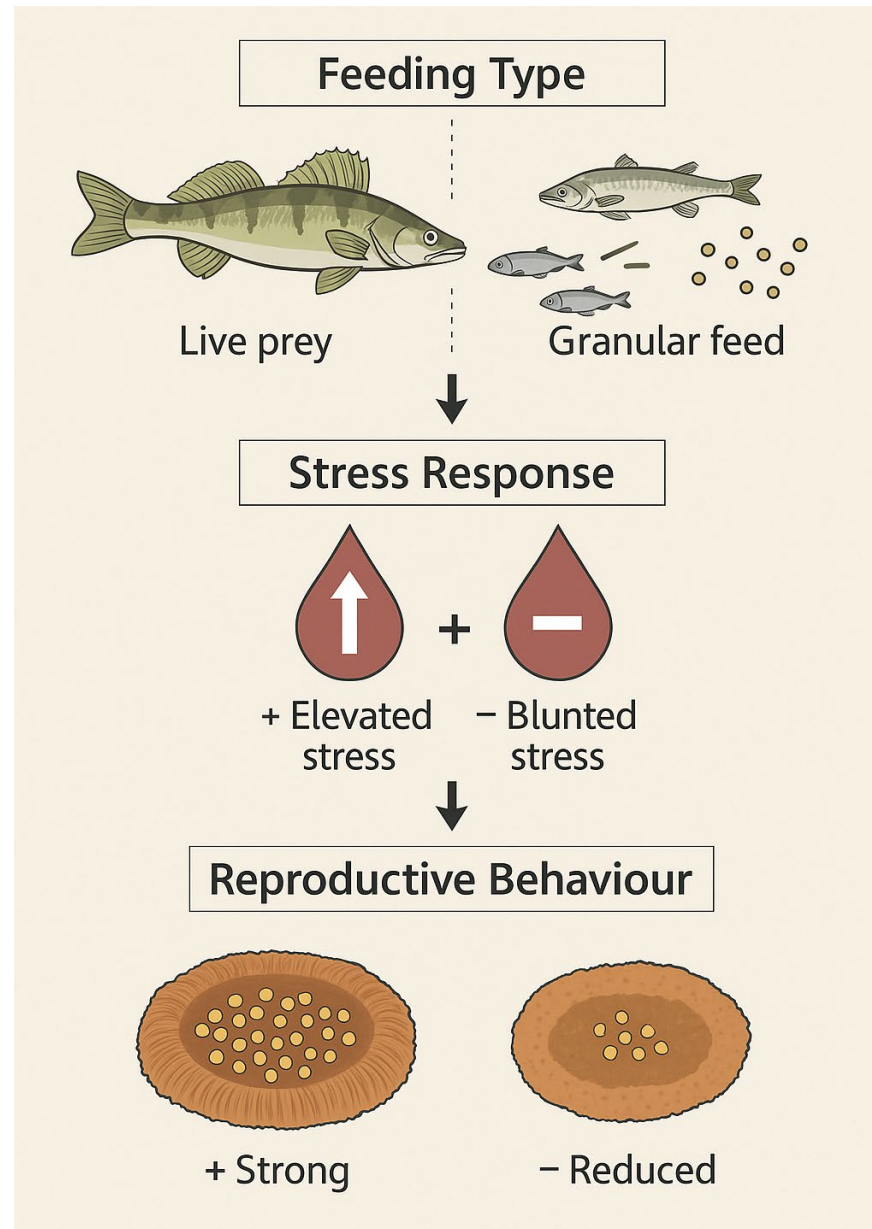


TARGET MARKET

Theory – Feeding ecology shapes stress reactivity: Pikeperch are natural predators, and hunting live prey maintains a functional stress axis.

Implication for broodstock management: Differences in origin translate into different reproductive outcomes.

Application in industry: Introducing controlled naturalistic stimuli (e.g., live prey training, environmental enrichment, stress modulation strategies) could maintain stress responsiveness and improve reproductive success in intensive pikeperch aquaculture.





The origin of pikeperch broodstock can affect their ability to express natural behaviour



If both males and females come from the same background, the effect becomes even stronger



Restocking should be done with caution – it is best to use fish from natural reproduction or extensive rearing





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