New Razorback Sucker Rearing Strategy

WBNFH

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Changing with an Evolving MSCP

• Need for bigger RASU is evident.
• WBNFH WILL provide bigger Razorbacks to MSCP!
• Find a balance of quality and quantity.
A New Strategy: **Yearclass Rearing**

- 5 Years at WBNFH
- First production run 2018
- Target number = 8,000 RASU annually
  - Currently, 2013 YC averaging 361mm
  - Two more grow out seasons!
  - Hoping for average TL >400mm, 450mm ideally
5 Year Plan Advantages

- Bigger RASU = Better survival
- Maintains genetic diversity: YC rearing is not trait selective.
- No fish left behind!
Constraints

- Heterogeneity
- Rearing Capacity
  - (1.5 FPP @ 300mm vs 0.5 FPP @ 450mm)
- Stocking RASU < 300mm
- Less fish
- Potentially keeping fish through spawn cycle... ramifications?
How are we Making it Happen?

• Retrofitted an additional recirculation unit.
• Continuing to improve culture techniques.
• Continuing experimentation to achieve faster growth.
Quantifiably Better Ammonia Removal
Learning From Failed Experiments
Flow Conditioning Flop

- Using concepts from Lake Mead Hatchery flow conditioning work, WBNFH applied these principles experimentally to our culture techniques during early rearing stages.

DID NOT WORK!
Conclusion

• We are growing bigger razorbacks for MSCP.
• WBNFH will continue to experiment to achieve maximum growth.
• Keep up with efficient communication between LCRMSCP and WBNFH.
• Recognize changing needs of MSCP and be willing to adapt so we can be successful.