



New Razorback Sucker Rearing
Strategy
WBNFH

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09.19.2014

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
 - (1.5FPP@ 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



VS



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.