

Grant Lovell - MPI Presentation

APRIL 2017

Salmon Production Cycles



Production Planning

- 5 years for Broodstock requirements
- 2 ¹/₂ years for anticipated smolt input numbers
- Fresh water timeframe 8 12 months
- Seawater grow out time frame 16 month

Key Goal - Year round consistent supply

- Photoperiod manlipulation
- Temperature linked to development
- Smolt input linked to farm location, timing, pen availability
 - limited options for some smolt



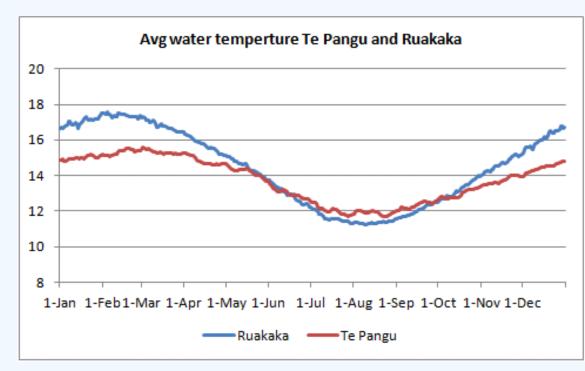


Growth projections and Modelling

- Highly variable
- Environmental differences between sites and years

It's a jigsaw

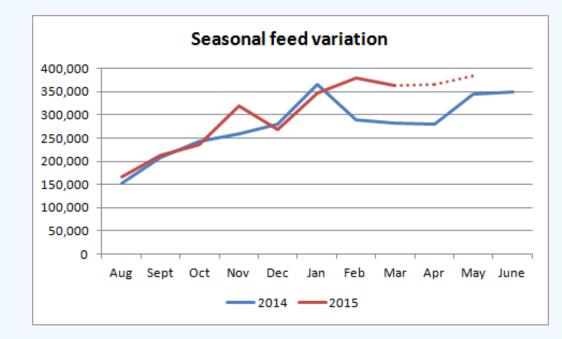
 Need to align harvest and sales to ensure no long term issues



Feed Planning

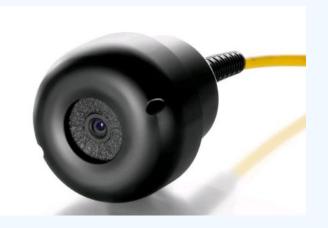
- Largest cost
- linked to consents
- Influenced by many factors
 - Diet Quality and Composition
 - Environmental factors
 - \circ size and growth rate
 - Stress factors
 - Harvest planning and alignment

Highly Variable and very difficult to get right each year



Feed Management

- Modern systems
- Closely monitored cameras on every pen
- Variations automatically flagged
- 99.9% consumed
- Pellet detection software trials
- Trial pens for research and development
- Feed caps verses BMP guidelines







Potential new sites

- Staged management and possible overlap
- Infrastructure replacement
- Feed caps and development
 - Overly conservative and not practicable
 - Very long times and small increases
 - 2 staged development and linked to BMP





Conclusion

- Planning is multifactorial and involves very long lead times
- There is significant natural variability in the the processes we undertake
- Feed is very managed tightly but highly variable due to many factors
- Feed caps are a poor form of regulation
- New sites need to be implemented carefully and overlap may be required due to infrastructure issues





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