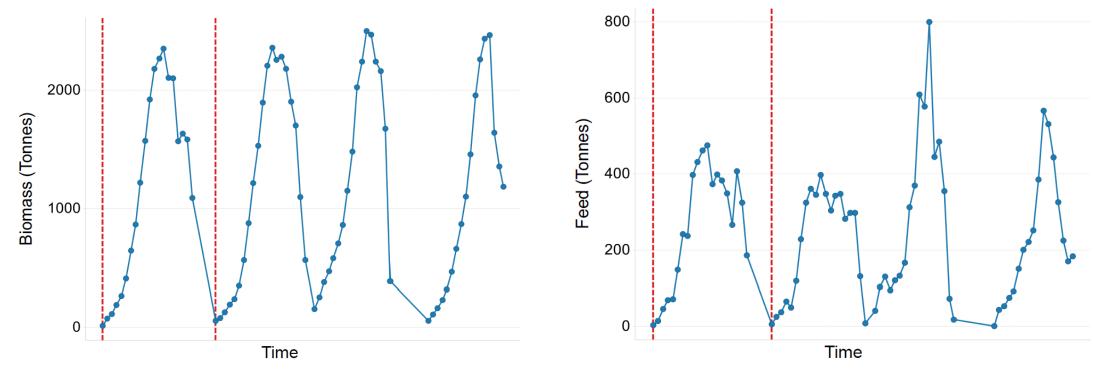
Biomass & feed: data that SEPA holds

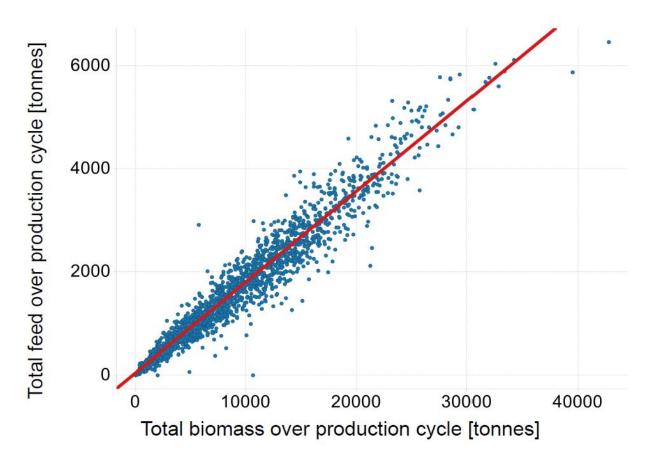


- Monthly reports of peak biomass and total feed used (>15 years, 400 sites)
- This information is supplied to us by operators & assume equally valid
- Feed is more variable than biomass



Biomass & feed over a full production cycle

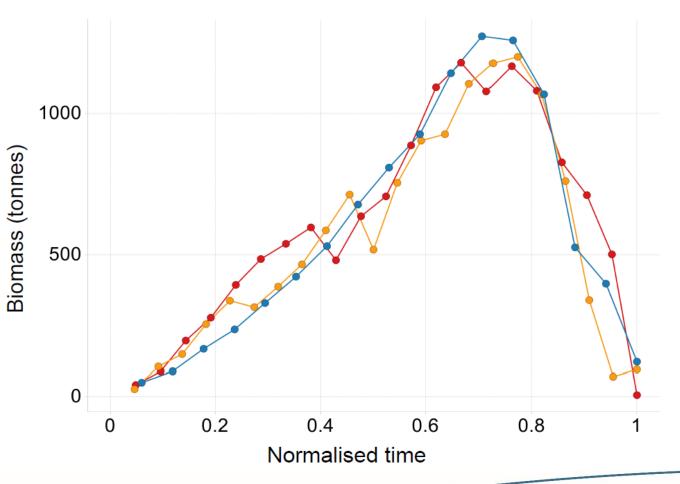
- Consider total feed used over a production cycle
- Greater biomass associated with greater feed
- There remains substantial scatter
- This can be caused by:
 - Site conditions
 - Annual feeding patterns
 - Different production cycle lengths
- Other mechanisms not in the data





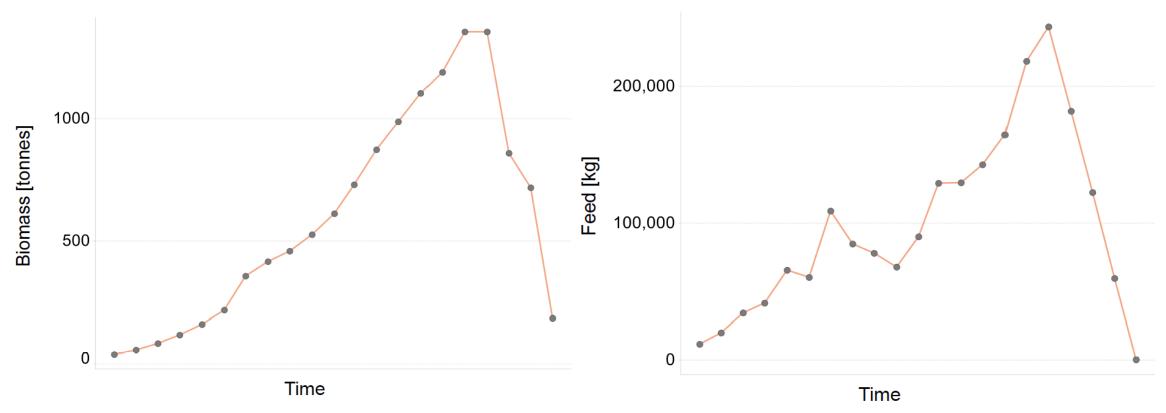
Similarities across production cycles

- Cluster analysis work
- No such thing as a "typical" production cycle
- Individual farms will often operate in very similar ways over multiple production cycles





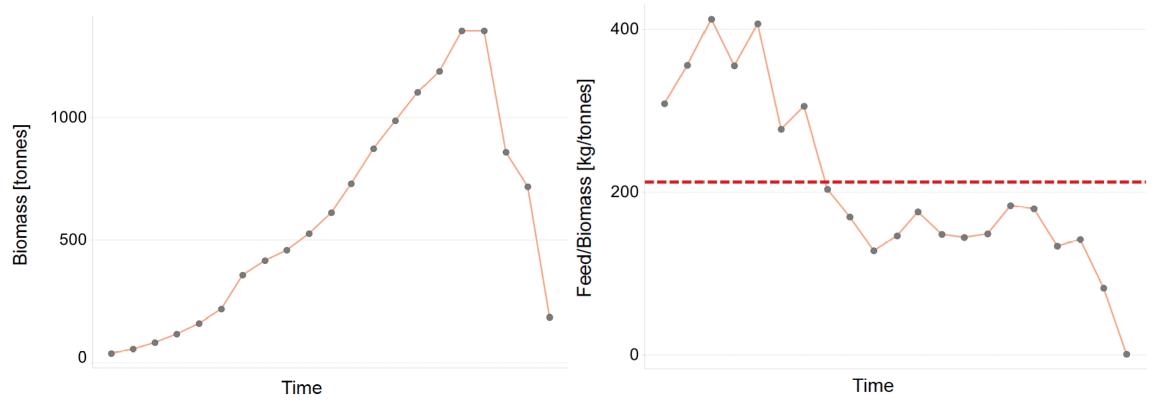
What about feed per unit biomass?



Absolute feed amounts are greatest around peak biomass



What about feed per unit biomass?

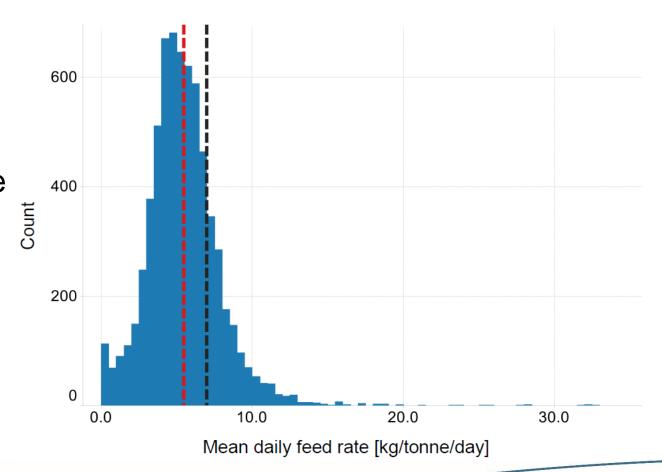


- Feed per unit mass is greatest at the beginning of the growth cycle
- 7kg/tonne/day is the estimate used in our modelling at peak biomass



Feed/biomass ratio for all farms

- Looked at feed/biomass for 3 month period around peak biomass
- Did this for every production cycle
- Converted monthly figures into daily
- Mean ratio: 5.5 kg/tonne/day
- 7kg/tonne/day = 80th percentile



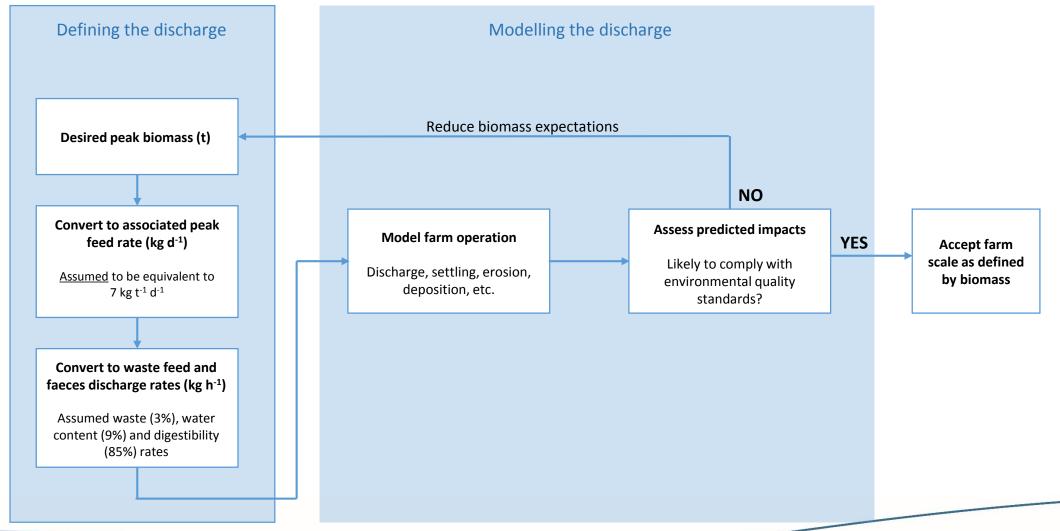


Summary

- Understanding of how biomass & feed can behave over a production cycle
- See that a relationship exists between them, but it is not trivial
- Further analysis of these data is ongoing
- This includes work to:
 - QC data
 - Better understand how farms are operating
 - Identify potentially suspicious returns



Current system





Proposed system

