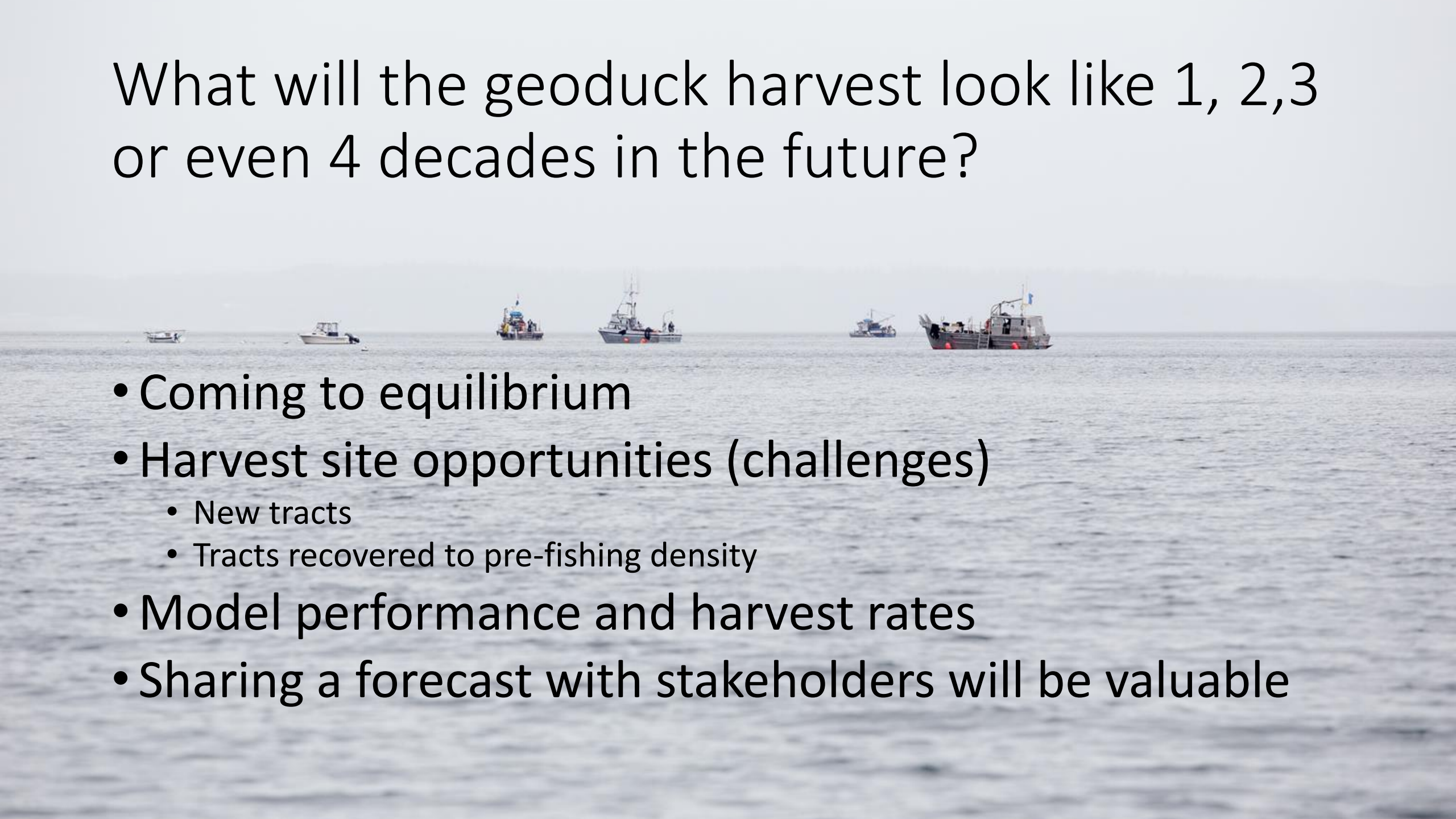


# GEODUCK HARVEST FORECAST

*A PEEK INTO THE FUTURE*

# What will the geoduck harvest look like 1, 2,3 or even 4 decades in the future?

- 
- A photograph of several fishing boats on a calm sea under a hazy sky. The boats are scattered across the horizon, with some appearing closer and larger than others. The water is a light blue-grey color, and the sky is a pale, overcast grey.
- Coming to equilibrium
  - Harvest site opportunities (challenges)
    - New tracts
    - Tracts recovered to pre-fishing density
  - Model performance and harvest rates
  - Sharing a forecast with stakeholders will be valuable

# Vashon Island and adjacent waters, 26D geoduck tracts



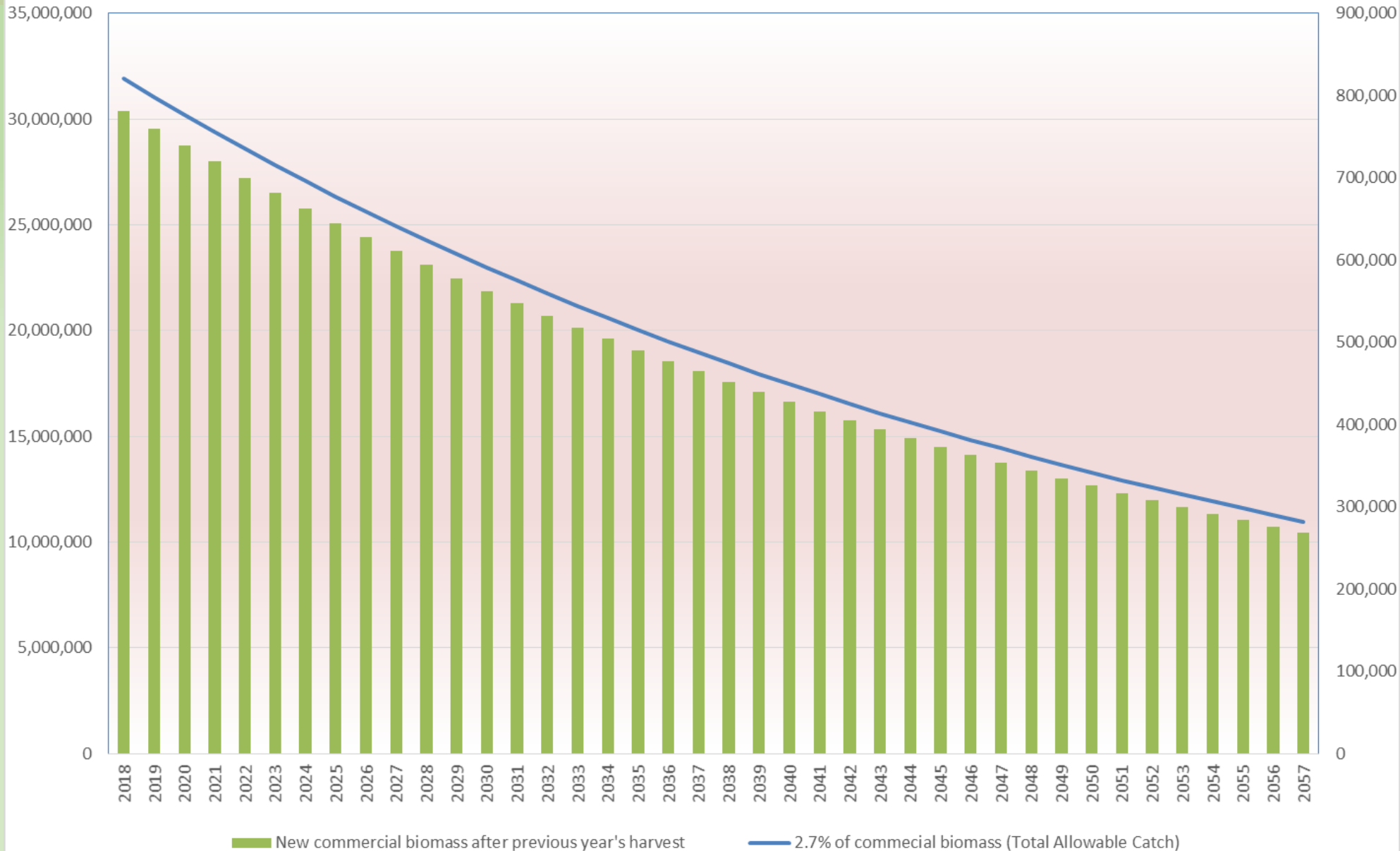


# Assumptions

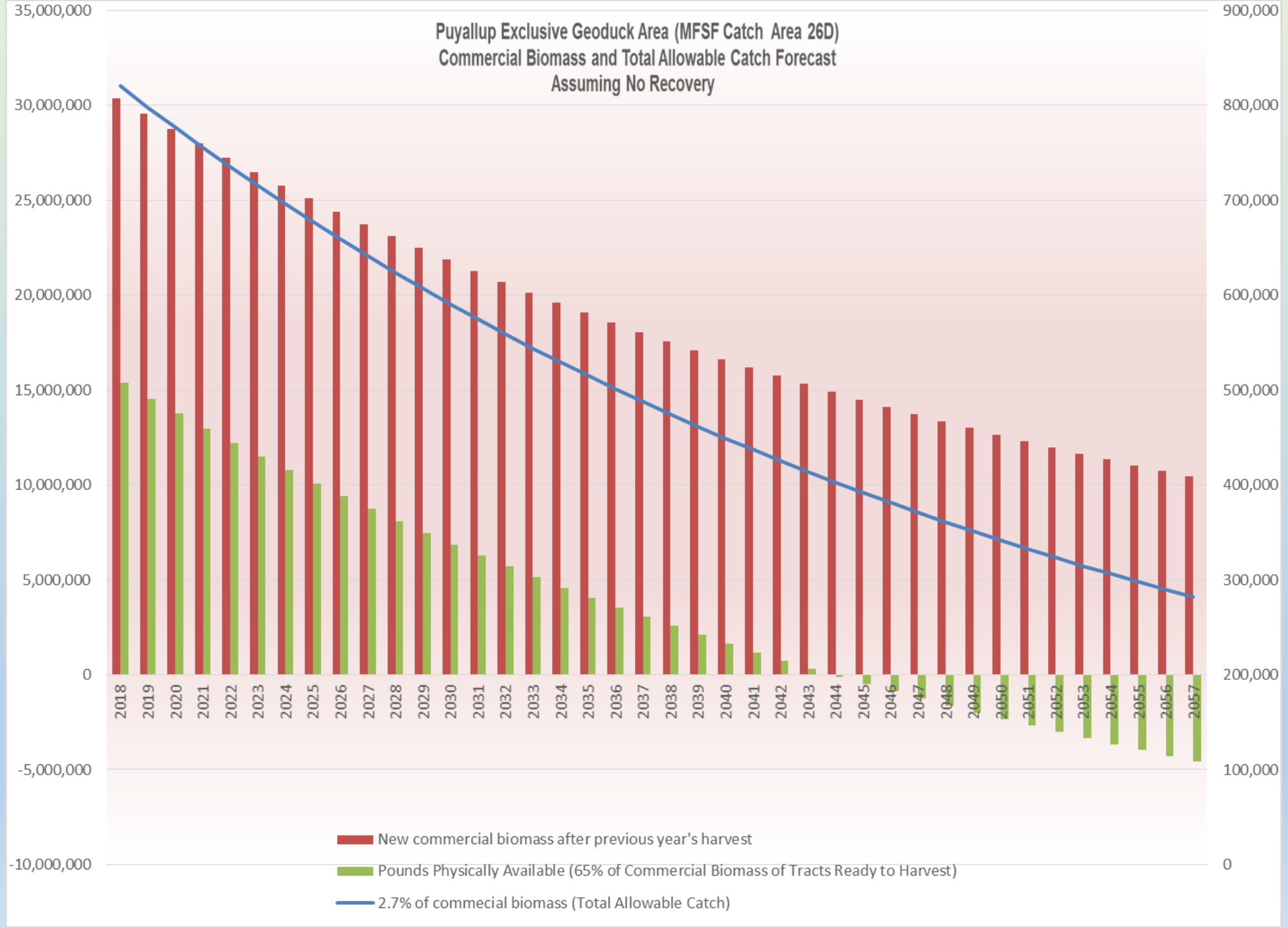
- Tracts will be fished down 65% and placed in recovery with 35% of the biomass remaining
- Tracts will recover to pre fishing density in 50 years.
- The entire annual allocation will be taken each year

# Commercial Biomass and harvest over 40 years

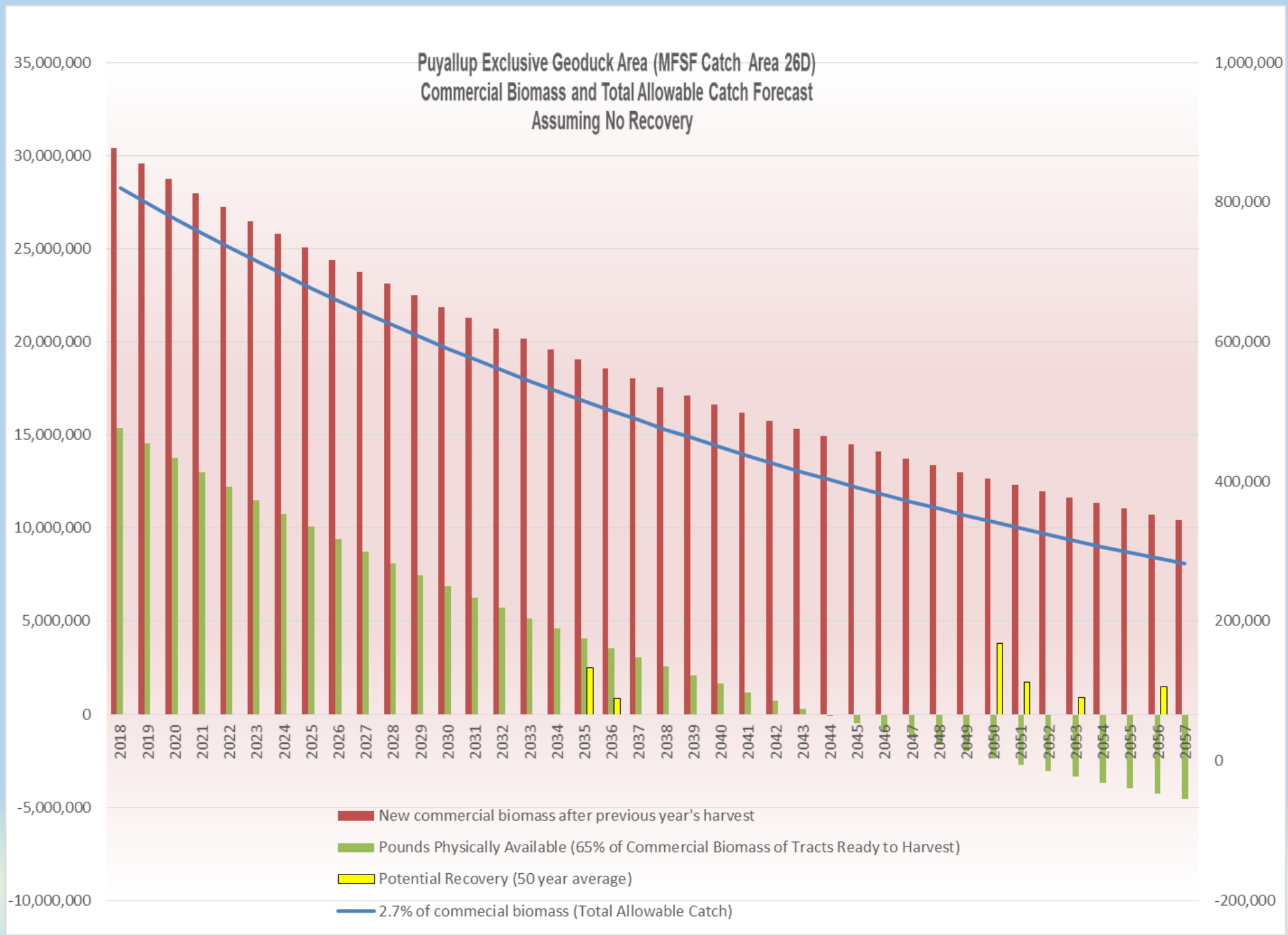
Puyallup Exclusive Geoduck Area (MFSF Catch Area 26D)  
Commercial Biomass and Total Allowable Catch Forecast  
Assuming No Recovery



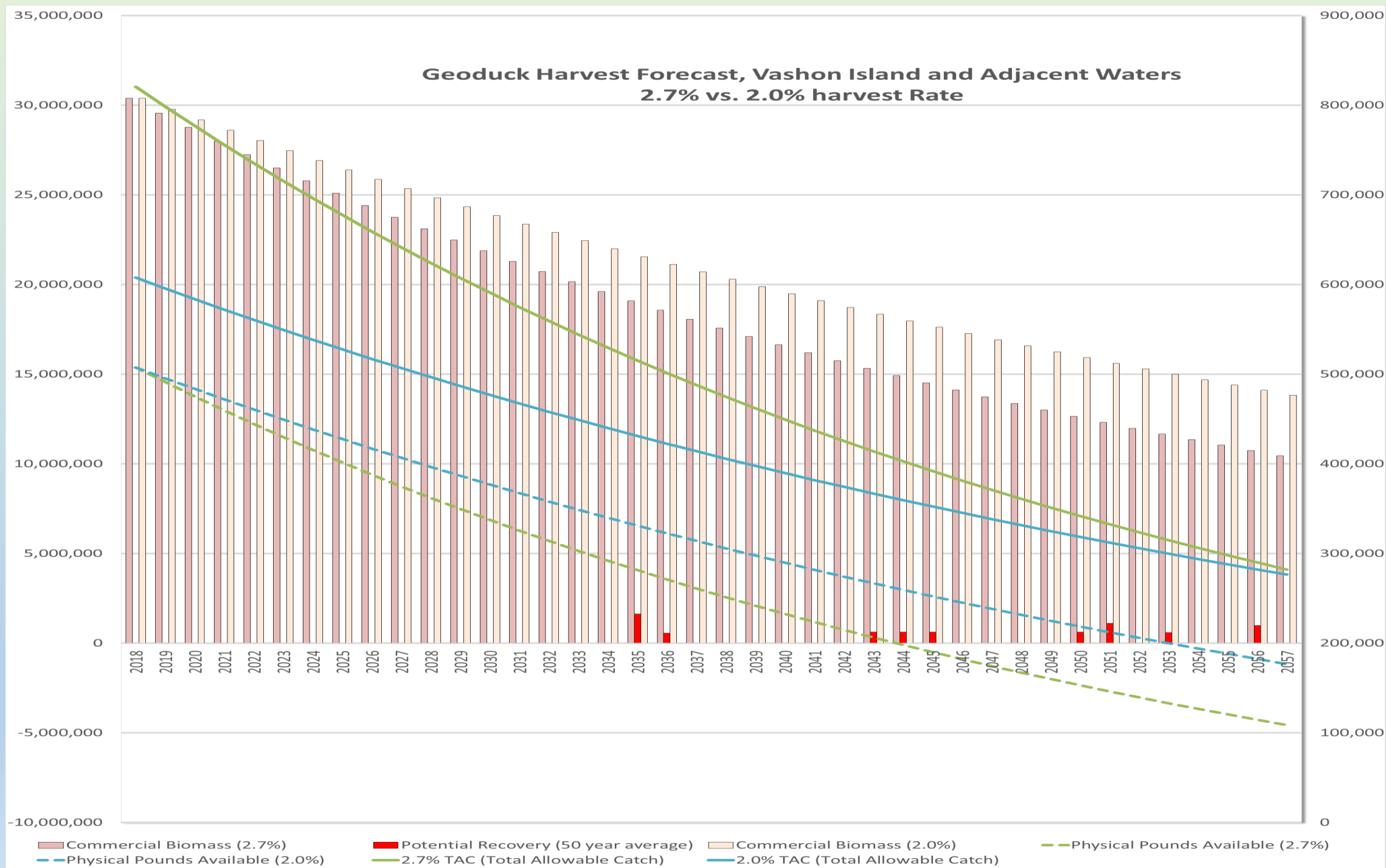
With  
physically  
available  
harvest  
sites



With  
potential  
recovery,  
50 year  
average



2.7  
vs.  
2.0





# Conclusion and Thoughts

- Stakeholders can be informed with a forecast to manage expectations
- We may have commercial biomass generating allocation but no viable tracts to harvest from
- Harvesting down tracts more than 65% should be considered
- Lower harvest rate can provide some relief