

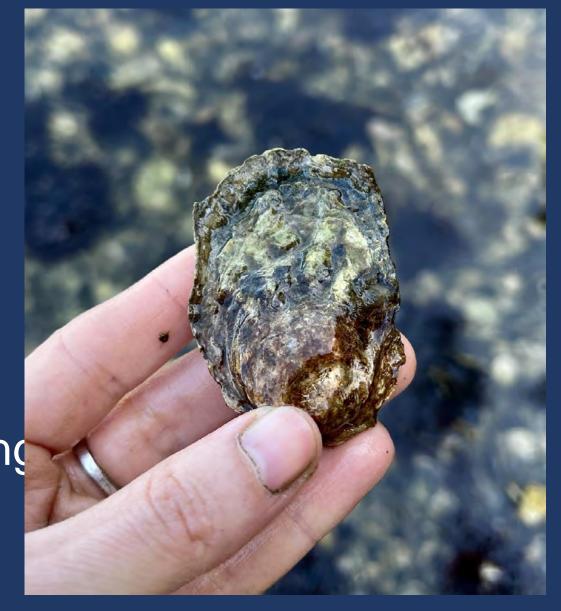


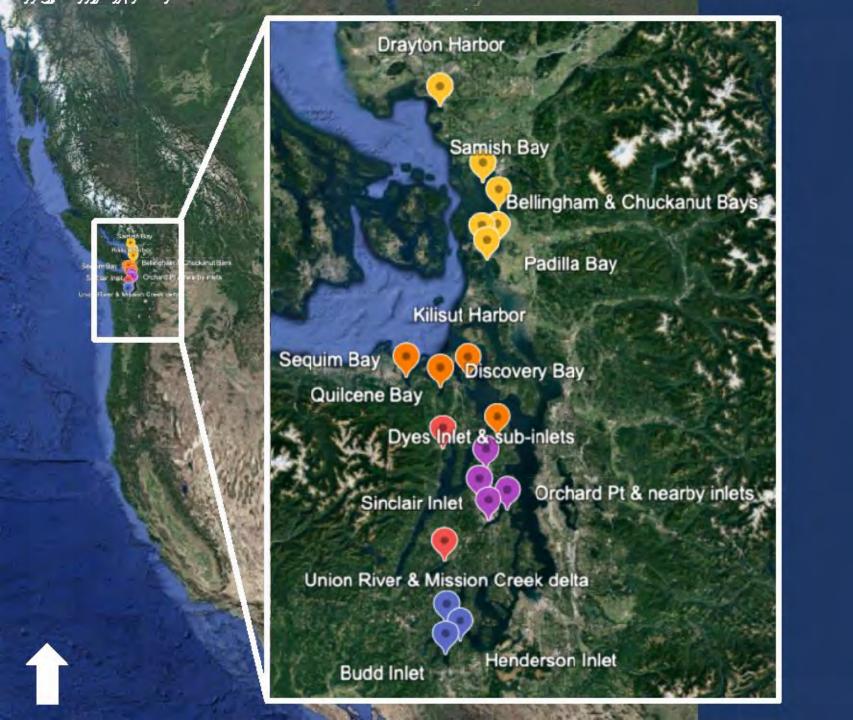


1997: State Candidate Species

1998: Stock Rebuilding Plan (PSRF, Tribes, MRCs, Growers)

2012: WDFW Population Rebuilding Plan





### Where we started and where we're at:

#### 4% of historical extent in PS

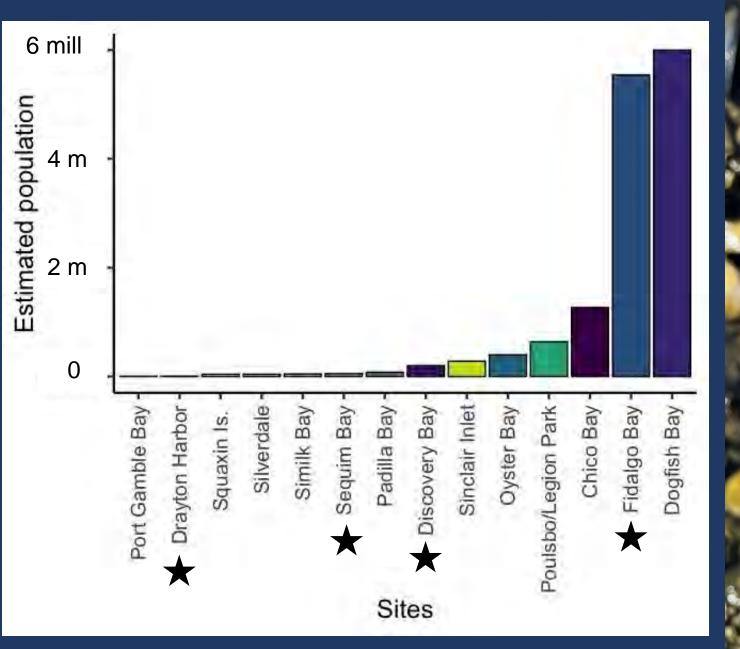
STRATEGY: focused restoration at 19 sites within Puget Sound by 2022.

GOAL: Re-establishment of selfsustaining, large-scale, dense native oyster assemblages able to function as source populations.

17/19 sites + other enhancements

PSRF: + 100 acres restored (2020) + 20 million oysters produced

















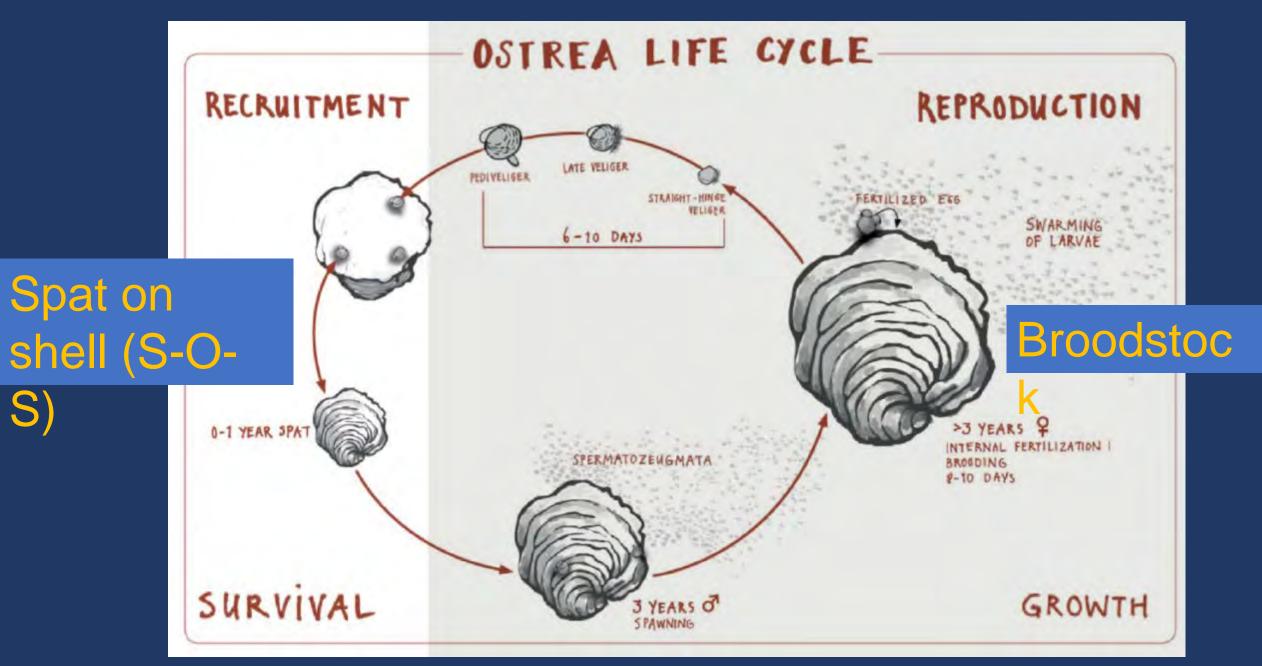












### Restoration sites can be:

- Recruitment limited Oysters
- Substrate limited
   Shell and/or alt substrates
- Recruitment & substrate limited Shell + Oysters



Photo credit: PSRF



# S-O-S, and/or singles needed for the majority of projects

Kenneth K. Chew Center for Shellfish Research and Restoration



## Genetic risk considerations when producing oysters



- Genetics panel for WA + genotyping of 500+ oysters
- Understand genetic diversity better
- Have a tool that we can use into the future
- Update WDFW protocols







Panel, SNP chip



Conservation hatchery Broodstock

SUBSTRATE







Panel, SNP chip



Conservation hatchery Broodstock



Alternative substrates

DISEASE/ PREDATION

Disease testing
Oyster drills



Panel, SNP chip





Conservation hatchery Broodstock



Alternative substrates

DISEASE/
PREDATION

Disease testing
Oyster drills

GENETIC RISK

Panel, SNP chip



Co-restoration
Aquaculture
Citizen science



Conservation hatchery Broodstock

SUBSTRATE

Alternative substrates



# Let's go restore more oysters!

