

Created by Jonathan
from the Houn Project

IDENTIFYING INDIVIDUALS FROM PROTECTED POPULATIONS

GENETIC ASSIGNMENT OF CHINOOK SALMON – WY 2023

PRESENTER SCOTT BLANKENSHIP PH.D.



ACKNOWLEDGEMENTS

WHY CONDUCT POPULATION ASSIGNMENT?

PERMIT COMPLIANCE

SWP Incidental Take Permit minimization measures

Annual winter loss = 1.17% winter run JPE

Monthly older loss = Jan 0.00635% winter JPE

Feb 0.00991% winter JPE

Mar 0.0146% winter JPE

Apr 0.00507% winter JPE

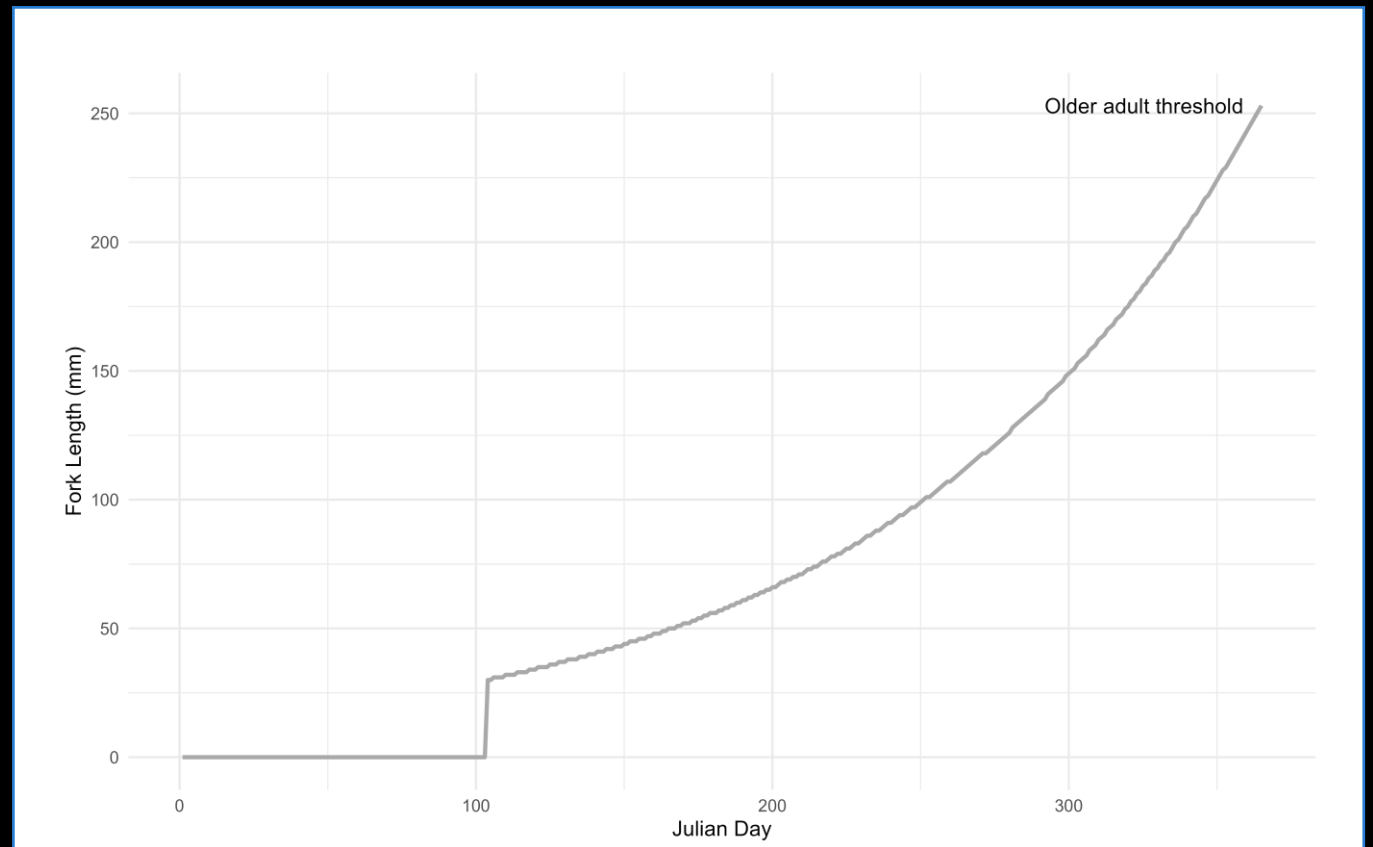
May 0.0077% winter JPE

CLASSIFICATION ACCURACY

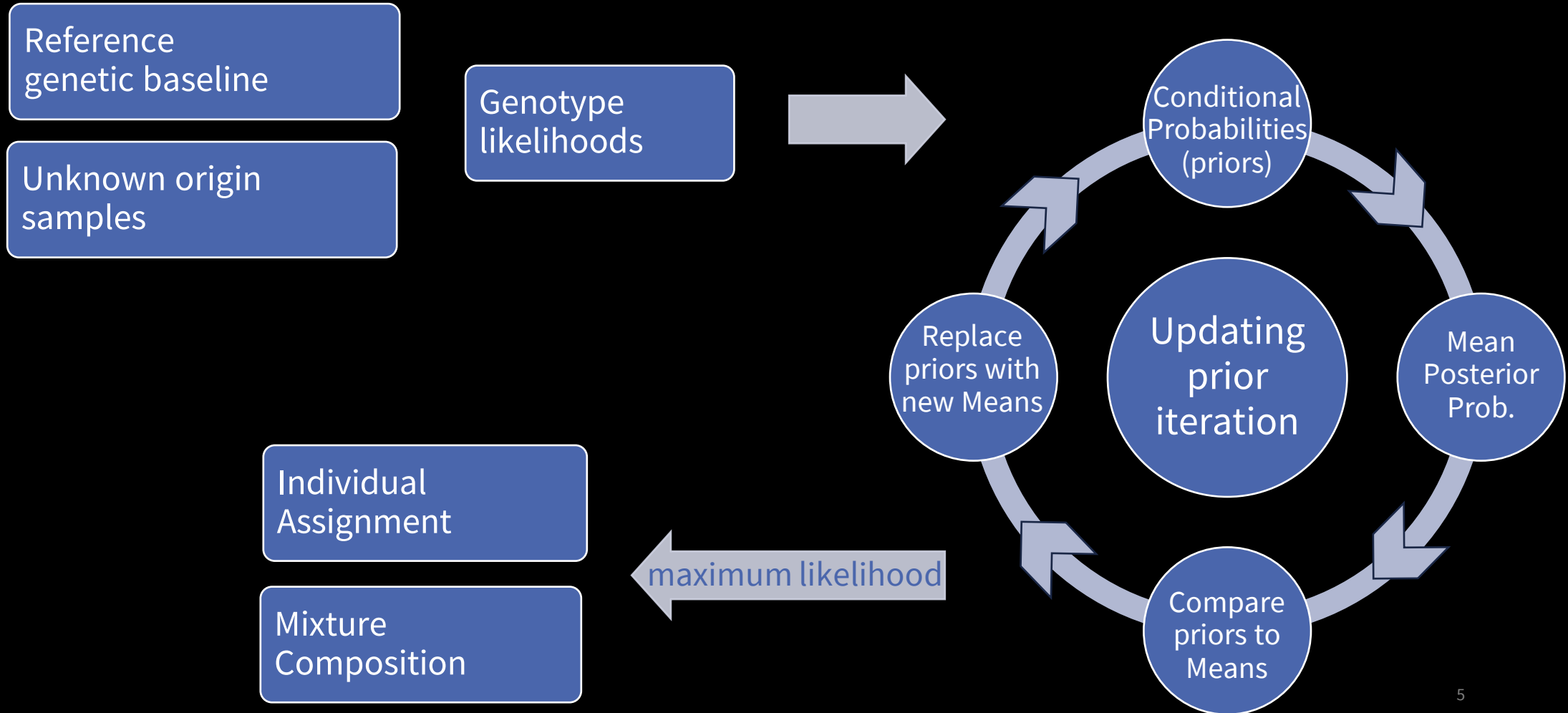
WHY CONDUCT POPULATION ASSIGNMENT?

PERMIT COMPLIANCE

CLASSIFICATION ACCURACY



HOW IS POPULATION ASSIGNMENT CONDUCTED?



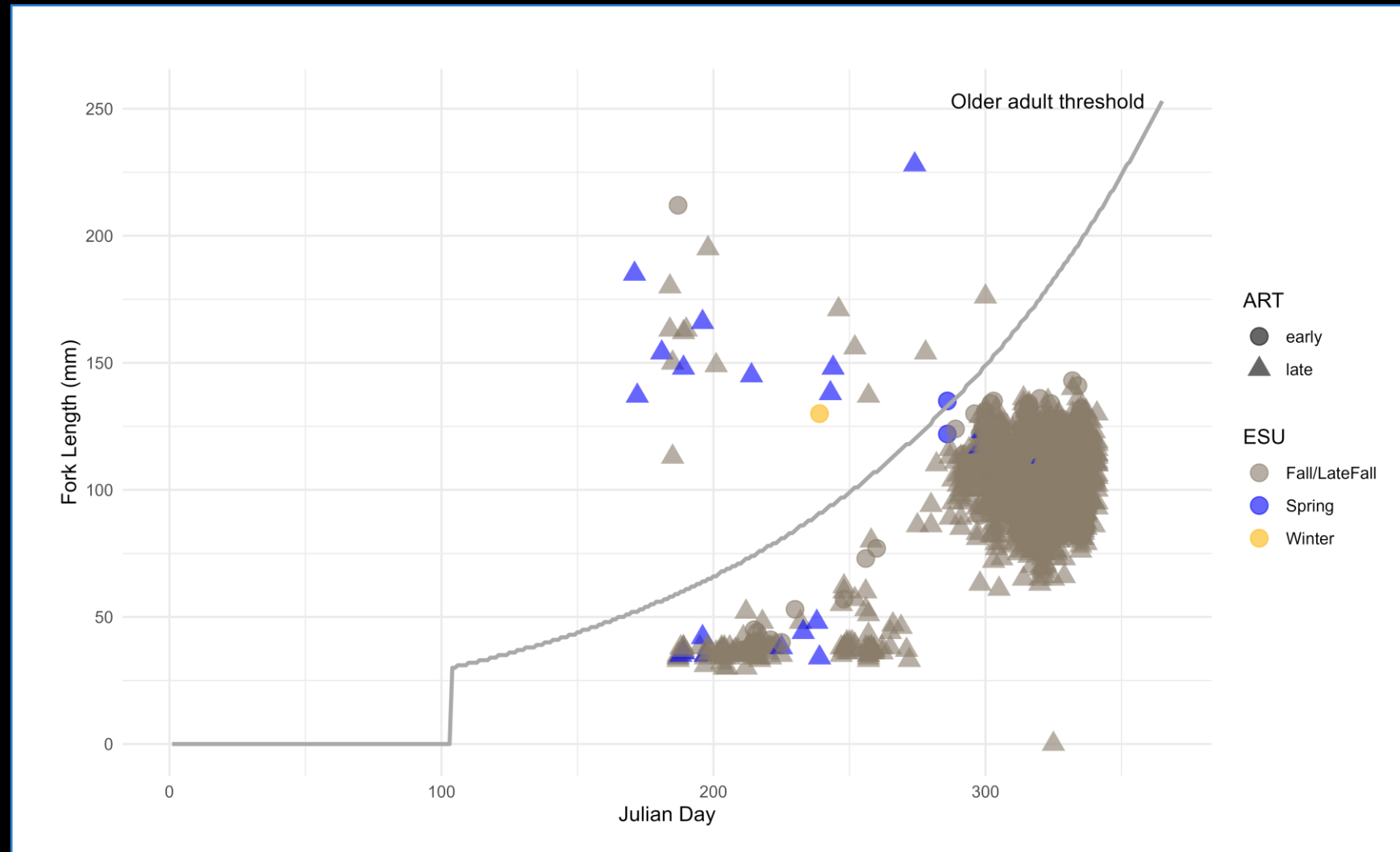
WATER YEAR 2023

POPULATION ASSIGNMENT

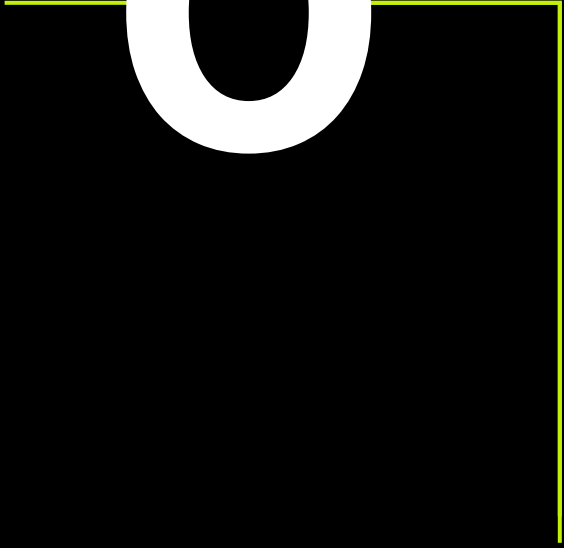
Total Salvage = 5,150

“older” = 25

Winter ESU = 1



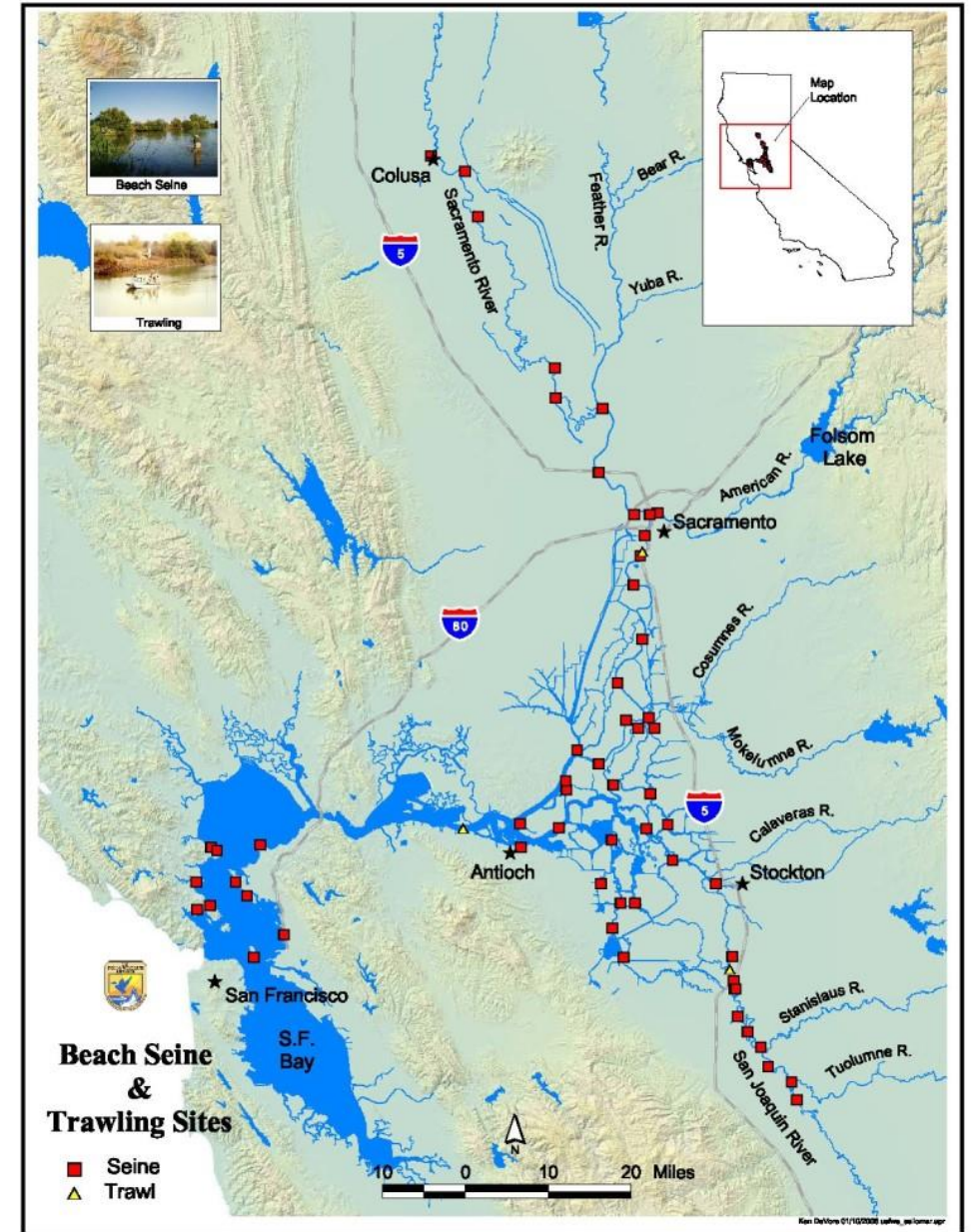
P O P

A diagram consisting of the letters 'P', 'O', and 'P' in a horizontal line. A thin yellow line starts at the right side of the 'O', extends horizontally to the right, then turns 90 degrees downward, ending at the top of the second 'P'.

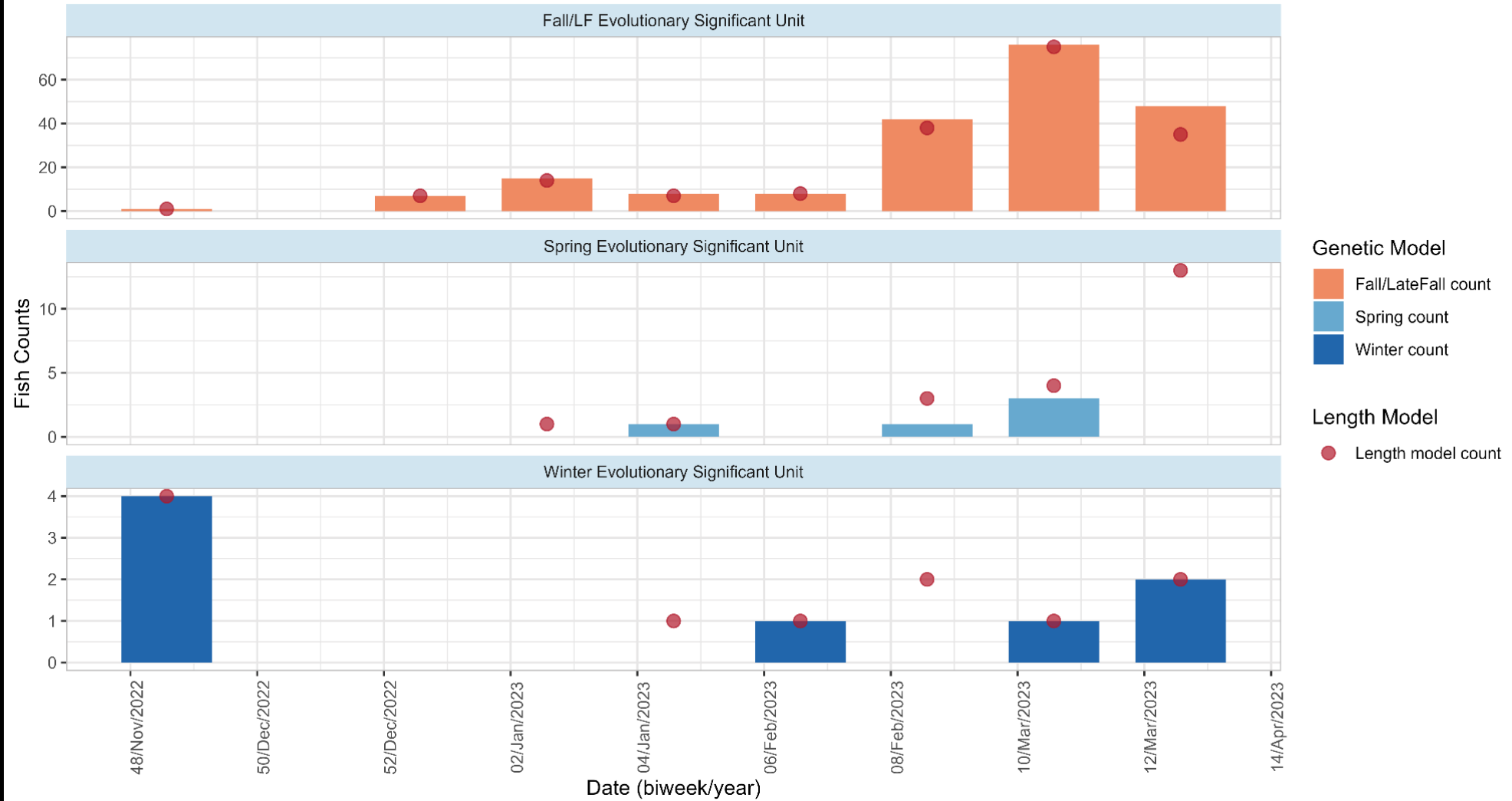
ID

Delta Juvenile fish monitoring

MSR	2023	SEINE
LSR	2023	KODIAK TRAWL
LSR	2023	MIDWATER TRAWL
LSR	2023	SEINE
DLC	2023	MIDWATER TRAWL
DLC	2023	SEINE
AMR	2023	SEINE
MOK	2023	SEINE
SJR	2023	KODIAK TRAWL
SJR	2023	SEINE
SPB	2023	SEINE



Sacramento Trawl (Kodiak Trawl) 2023



Chippis Trawl (MIDWATER) 2023



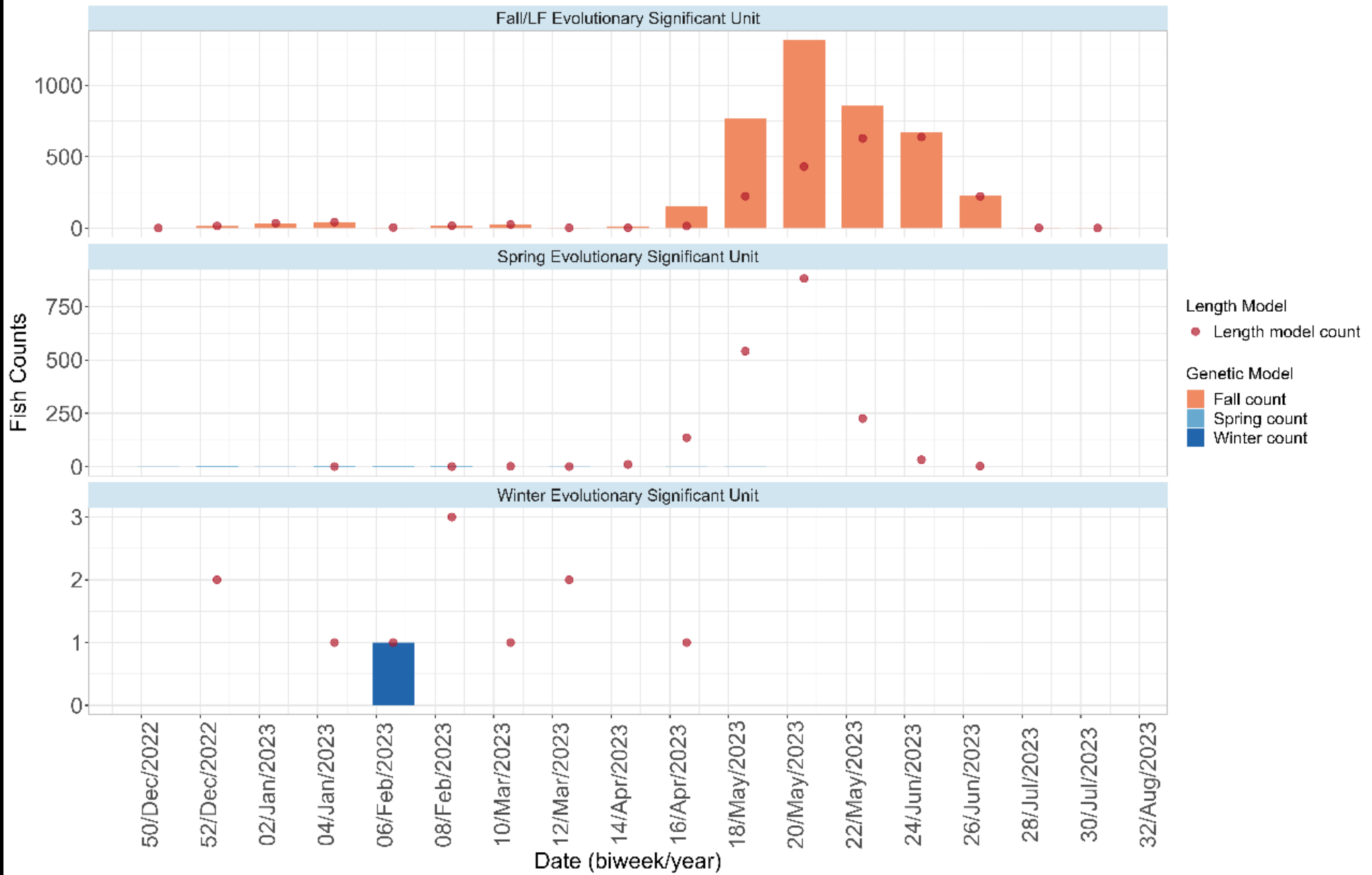


SALVAGE

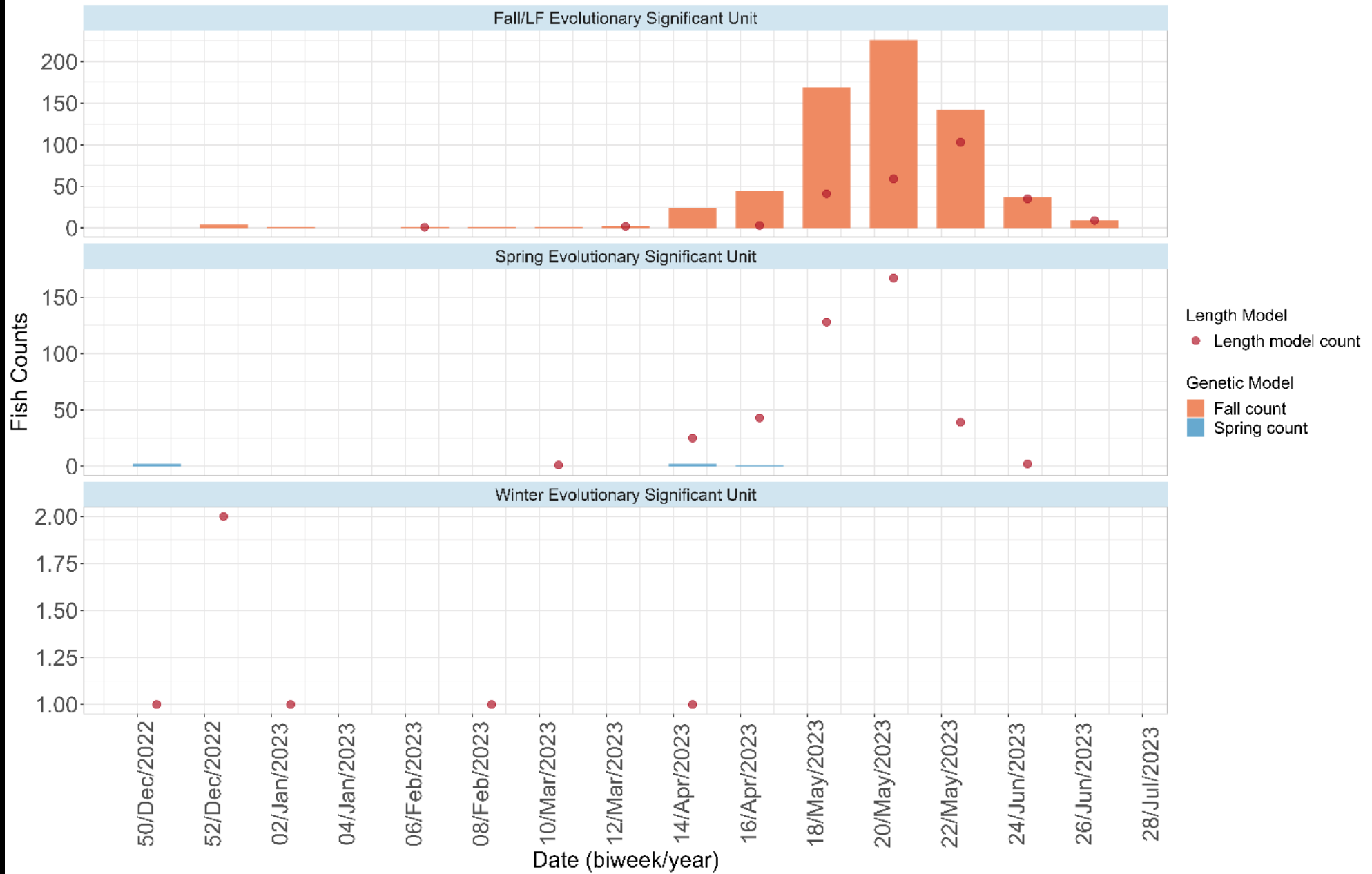
STOCK PROPORTIONS

	Total Count	
	CVP	SWP
	4173	667
Assignment Category	Count Proportion	
LAD Winter ESU	0.3%	0.9%
LAD Spring ESU	44.0%	60.7%
LAD Fall/LF ESU	55.5%	38.4%
LAD unknown	0.2%	0.0%
Genetic Winter ESU	0.0%	0.0%
Genetic Spring ESU	0.4%	0.7%
Genetic Fall/LF ESU	99.6%	99.3%
Unassigned	0.0%	0.0%

CENTRAL VALLEY PROJECT

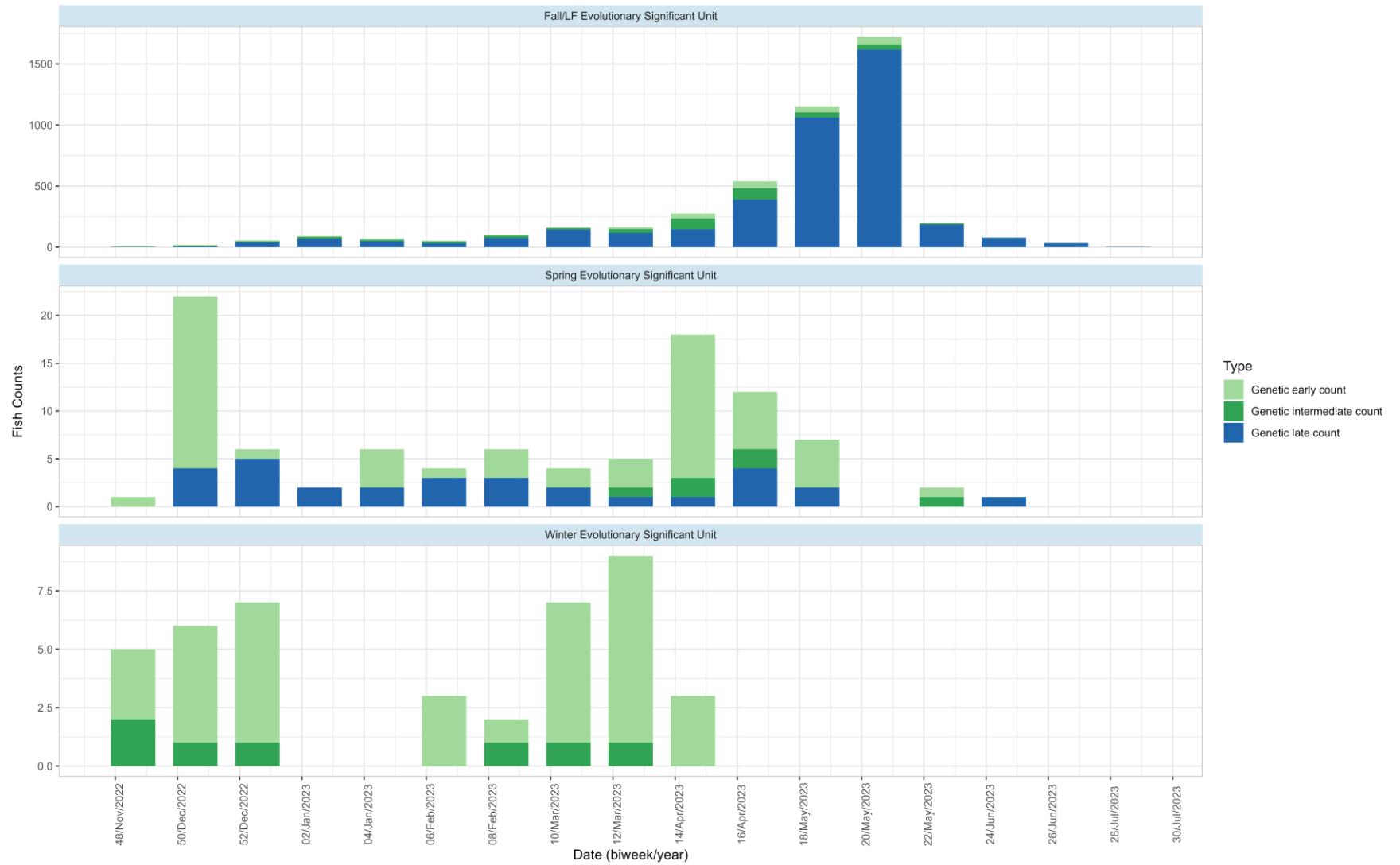


STATE WATER PROJECT



ADULT RETURN TIME

Adult Return Time - WY 2023



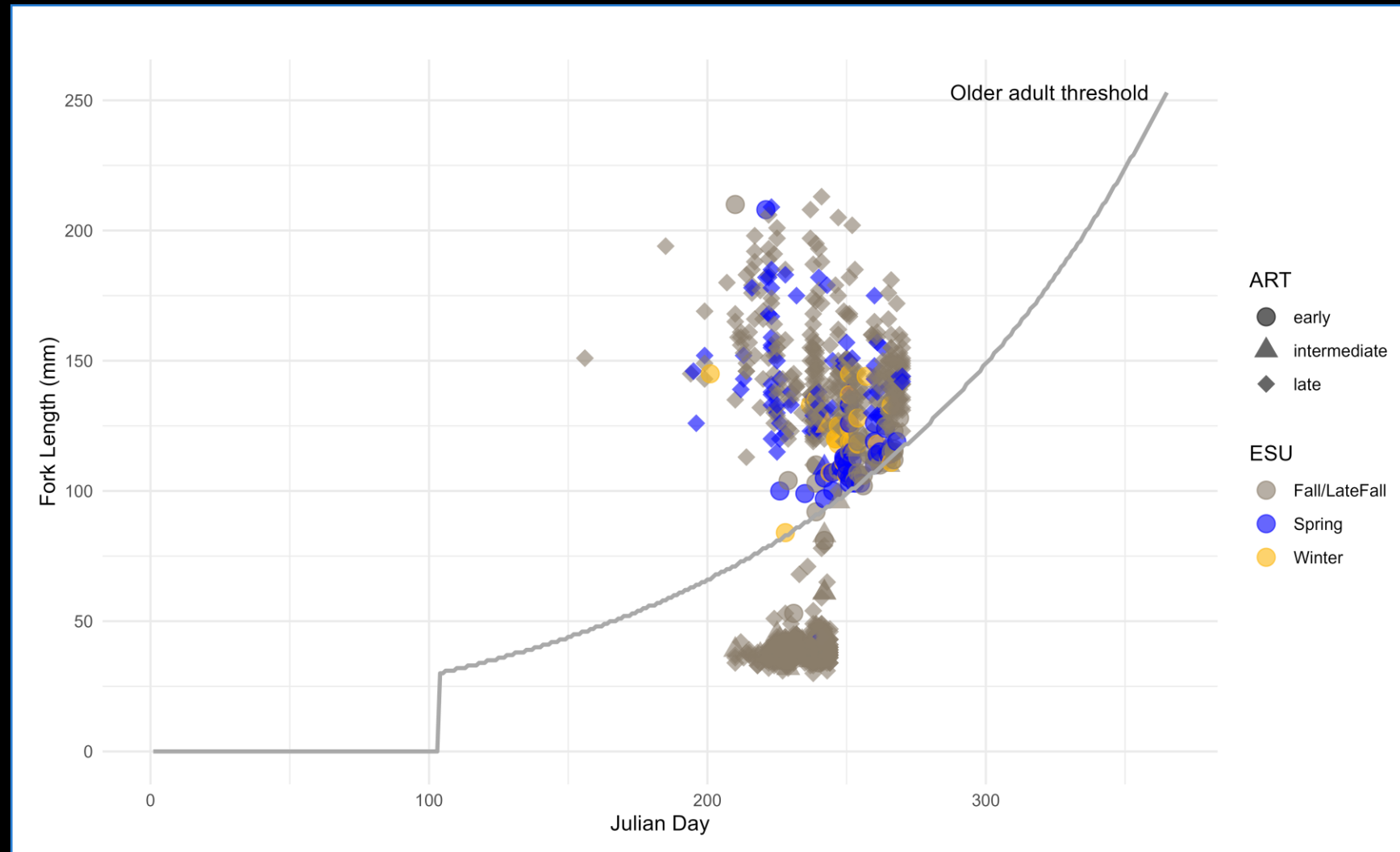
WATER YEAR 2024

POPULATION ASSIGNMENT

To Date Salvage = 1,329

“older” = 408

Winter ESU = 23



MONITORING SYNERGY

Reintroduction

- Predation
- Release strategies

LSNFS Brood

Parentage

- RBDD
- Boat survey
- Yolo Bypass
- Trawls
- Salvage

