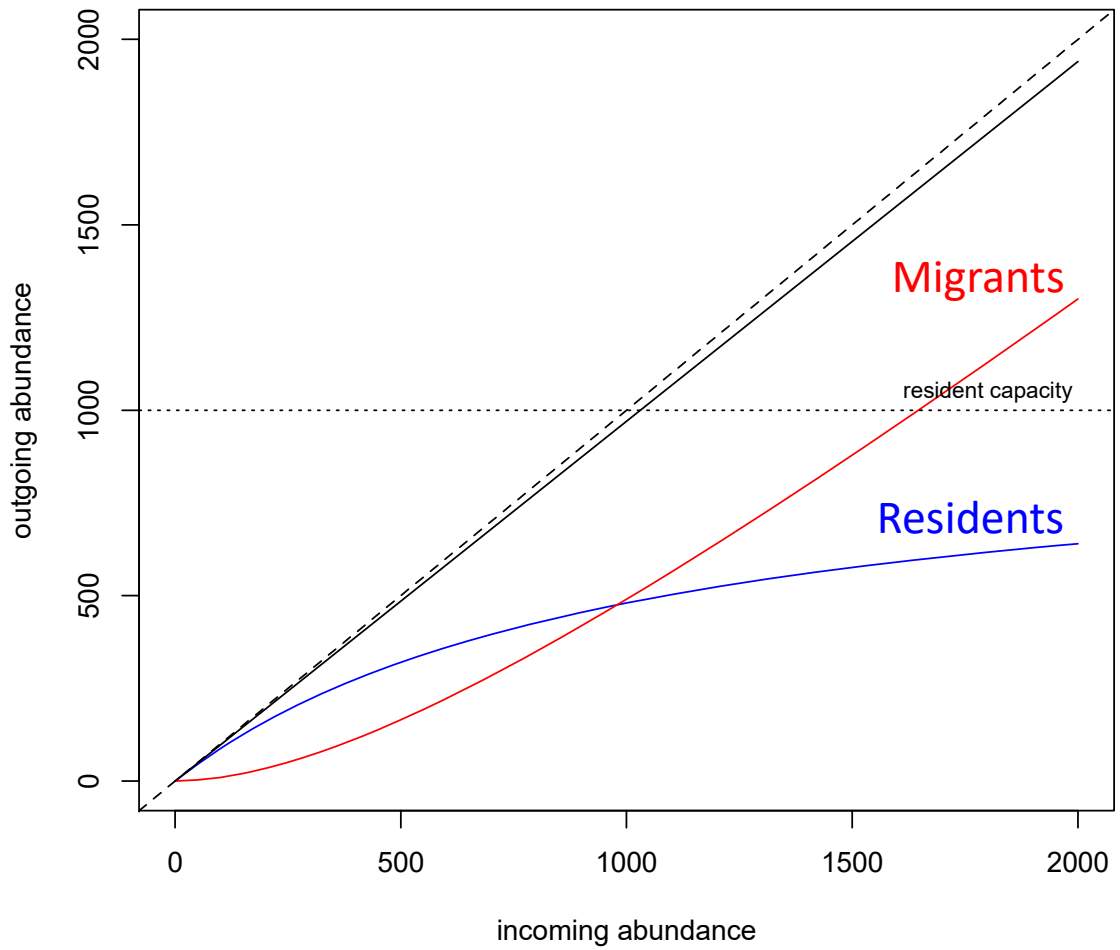
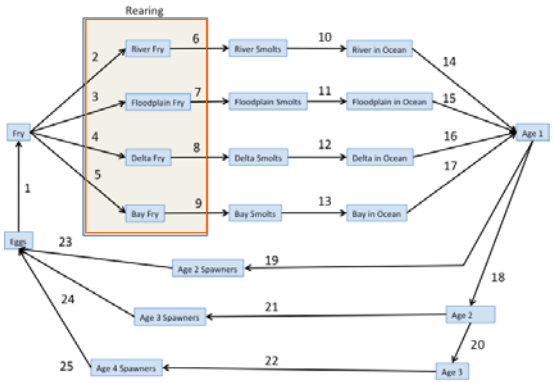
Fry Rearing
Movement Function



$$\text{Resident}_{h,m} = \frac{S_{h,m}(1 - mig_{h,m})N_{h,m}}{1 + S_{h,m}(1 - mig_{h,m})N_{h,m} / K_{h,m}}$$

$$\text{Migrant}_{h,m} = S_{h,m}N_{h,m} - \text{Resident}_{h,m}$$



https://www.comstocksmag.com/longreads/bridge-over-troubled-waters

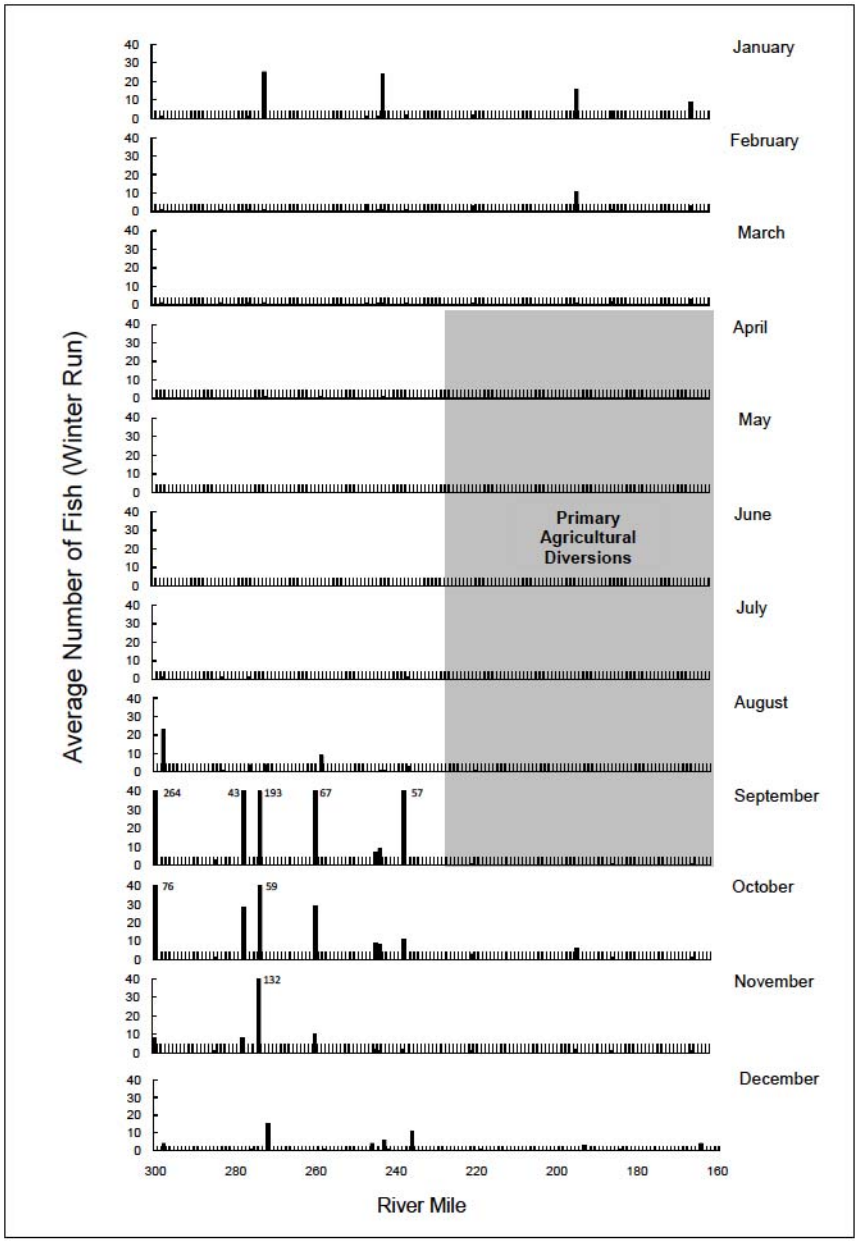
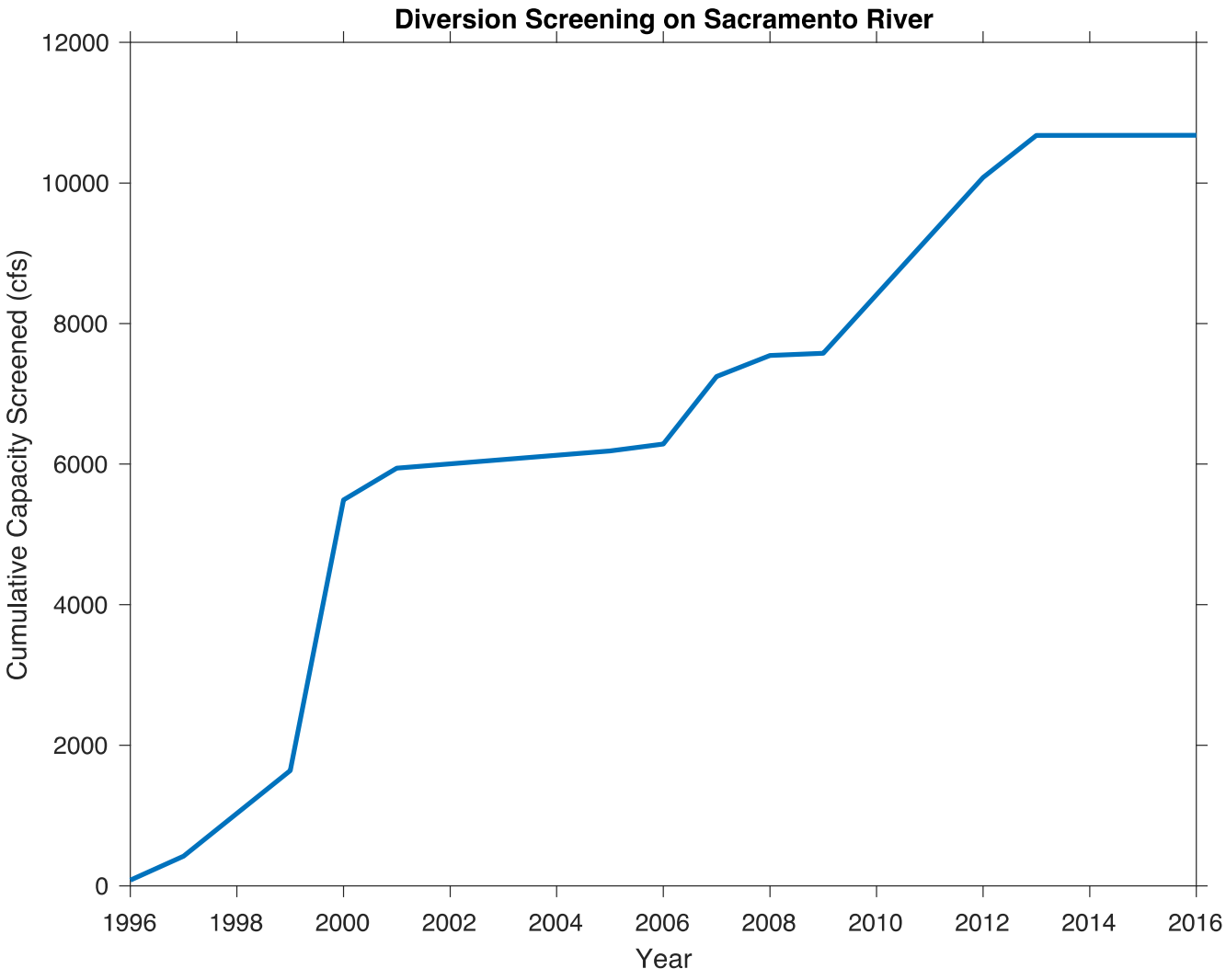
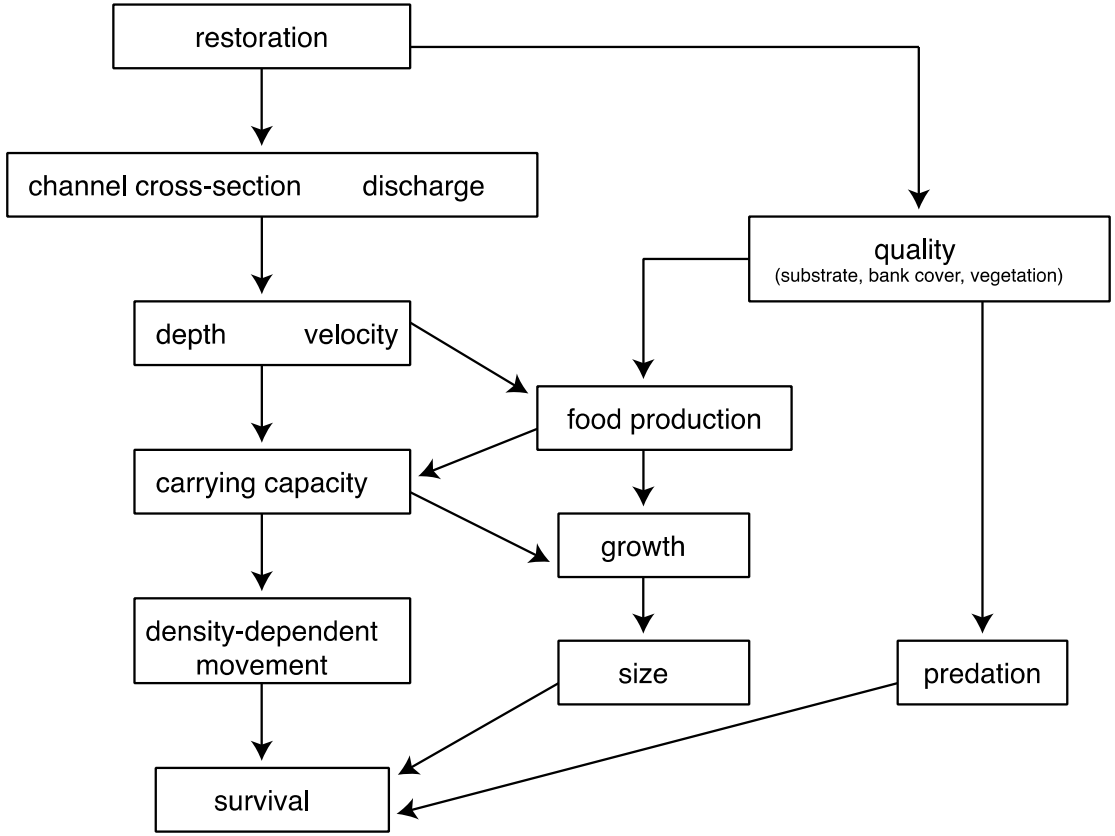


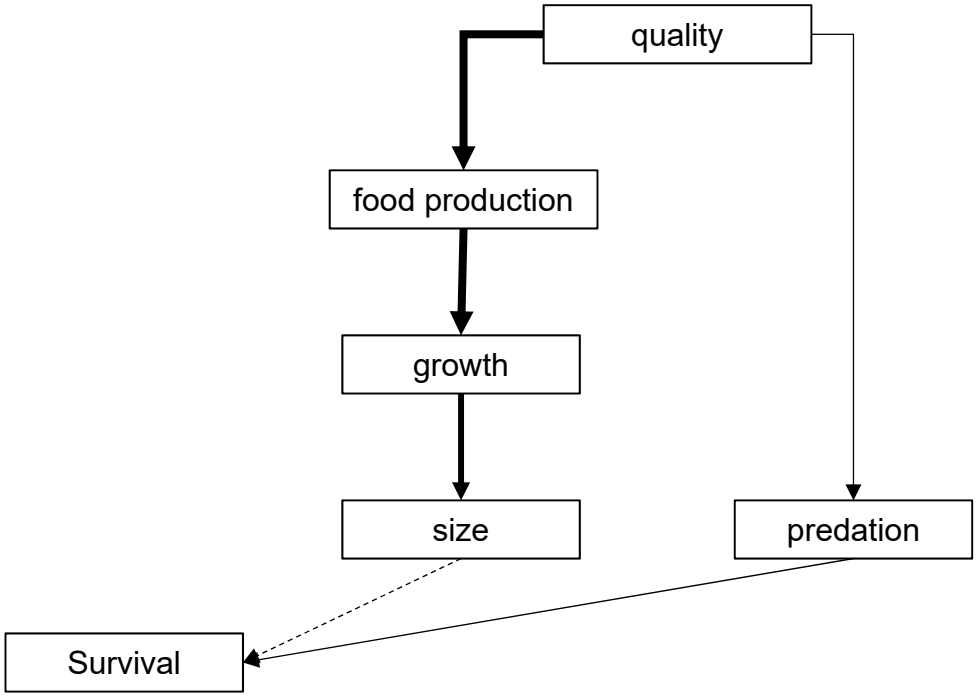
Figure 31. Spatial and temporal distribution of winter-run Chinook captured by the USFWS during year-round monthly beach seining at 13 sites in the Sacramento River, 1981 – 1991 [(N = 10,778) from Johnson *et al.* 1992].



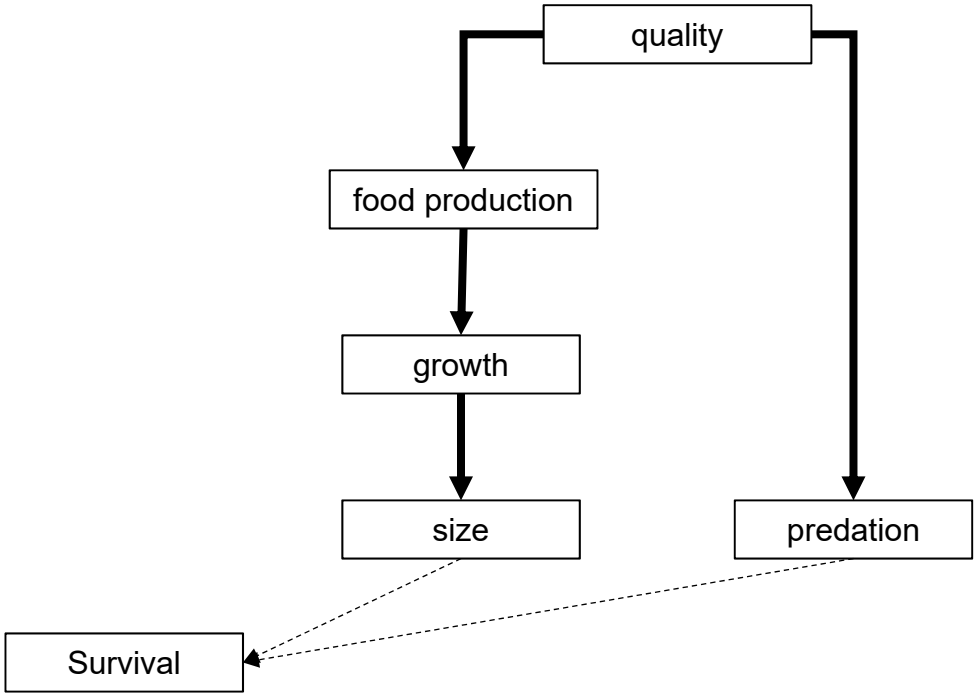
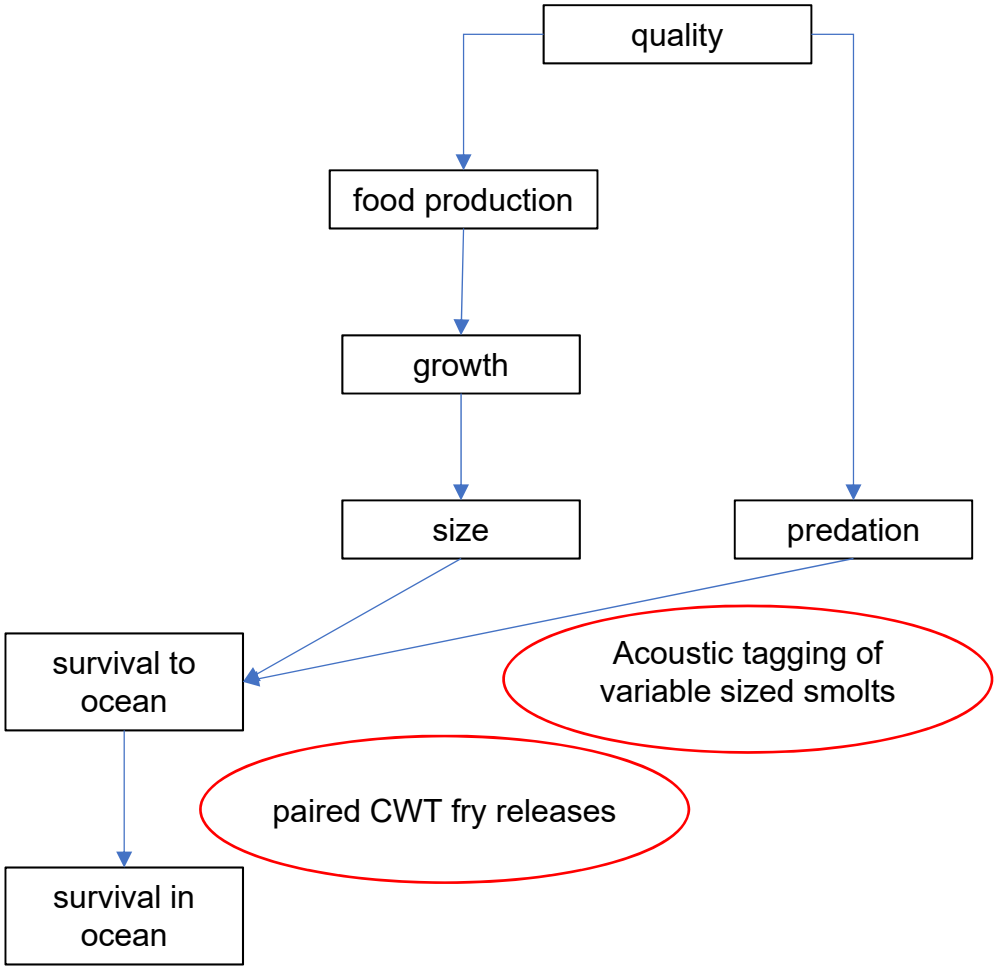
Data from Vogel (2011)


restoration
channel cross-section
discharge
quality
(substrate, bank cover, vegetation)
depth
velocity
food production
carrying capacity
growth
density-dependent
movement
size
predation
survival

general scientific support



Yolo studies



studies to address limitations