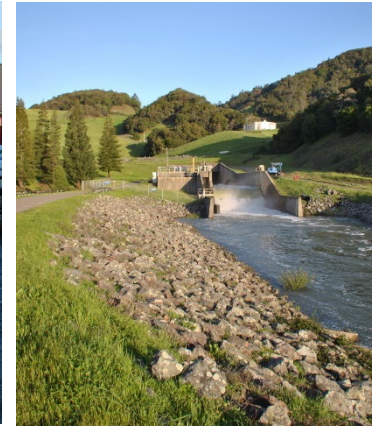


Don Clausen – Warm Springs Fish Hatchery

(Presenters: Ben White USACE and
Darrick Muir CDFW)



- Located at the base of Lake Sonoma
- Owned and funded by the US Army Corps of Engineers
- Two fish hatchery programs:
 - RR Coho Salmon Broodstock Program
 - RR Steelhead Program
- Coho Program operated by USACE (Recovery Program)
- Steelhead Program operated by CDFW (Harvest Program)



Russian River Coho Salmon Broodstock Program

- Juvenile Coho salmon are collected from multiple Russian River tributaries each year to be used as broodstock

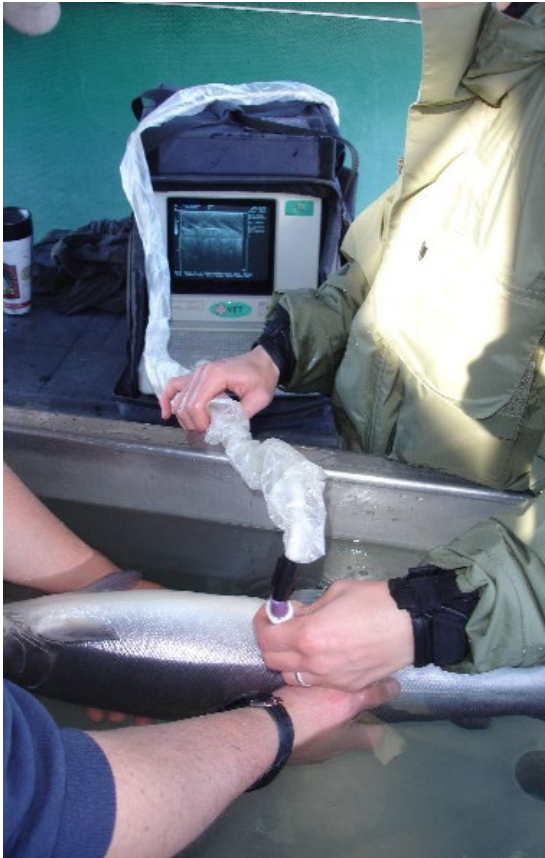


- Broodstock are raised to maturity and spawned according to a genetics breeding matrix

- Offspring are released as juveniles into historical Coho streams within the lower Russian River watershed



Coho Program: Lessons Learned and Actions Taken During the Drought of 2021



- Water is supplied from Lake Sonoma and typically ranges from 52-58°F year-round
- In 2021, water temp. reached 62°F by late July
- This resulted in an increase in pathogens and a decrease in juvenile production
- As a contingency plan, a portion of the broodstock were transferred to the hatchery at Casa Grande High School in Petaluma.
- **BIG THANKS** to the United Anglers of Casa Grande HS, Jackson Family Wines, and Sonoma Water for supporting this effort!!

Russian River Coho and Steelhead Program: What to expect in 2022...

- USACE will conduct unprecedented gate changes from Warm Springs Dam to tap into the cold-water pool at the bottom of Lake Sonoma
- Continued monitoring of hatchery water temperature and fish health
- Plenty of fish rescues and fish relocations into better stream habitat and the hatchery
- Contingency plans for all juvenile releases to maximize in-stream survival and out-migration



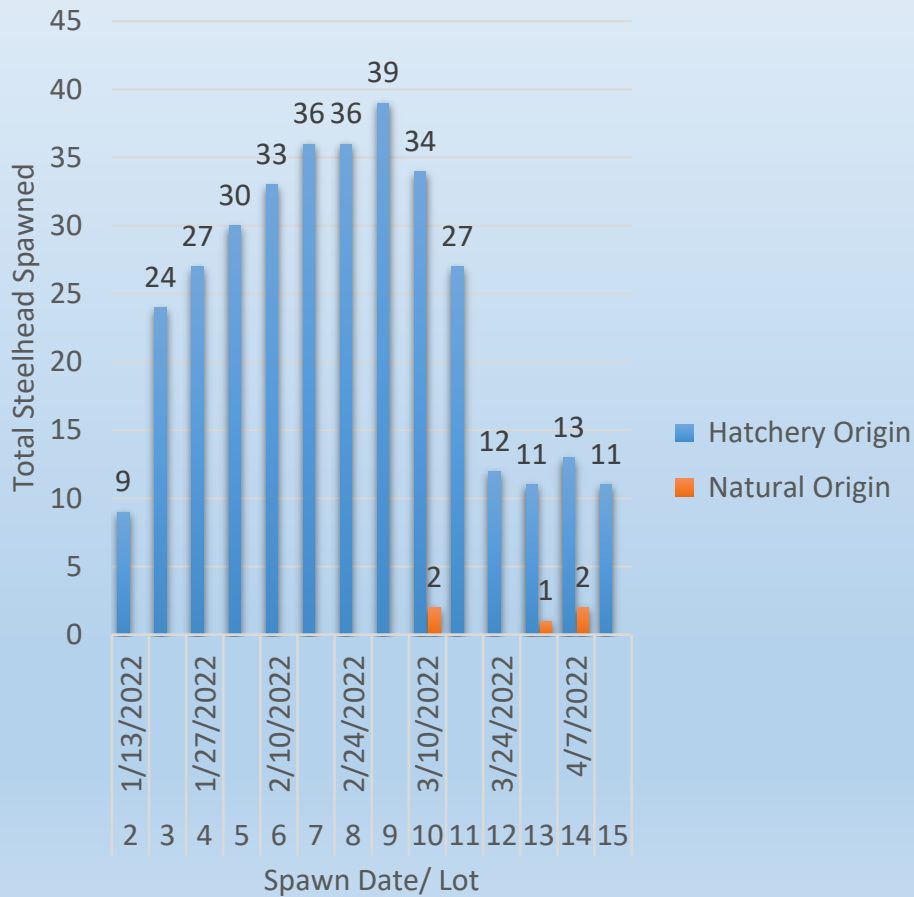
Russian River Steelhead Program

- Warm Springs Hatchery has been in service since 1982
 - Rears 300,000 yearling steelhead
 - Expected yearly return of 3,000 Adults
- Coyote Valley Fish Facility has been in service since 1991
 - Rears 200,000 yearling steelhead
 - Expected yearly return of 2,000 Adults

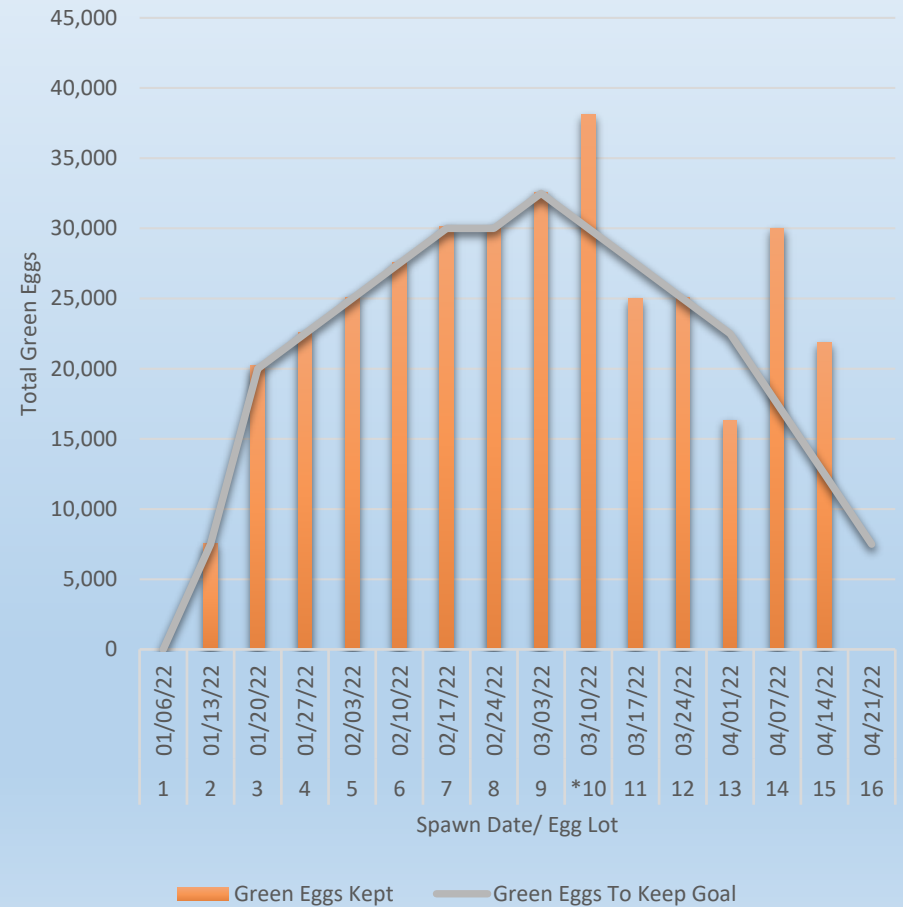


2022 WSH Year at a Glance

Warm Springs Spawning Matrix Brood Year 2022

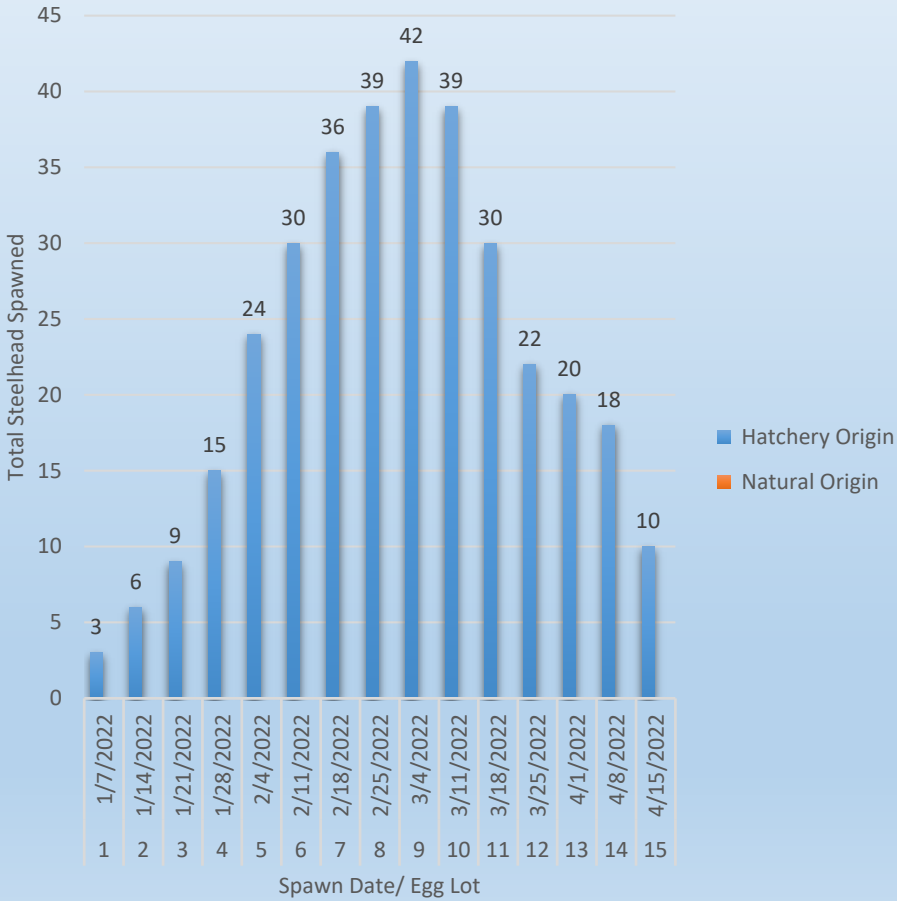


Warm Springs Green Egg Take Brood Year 2022

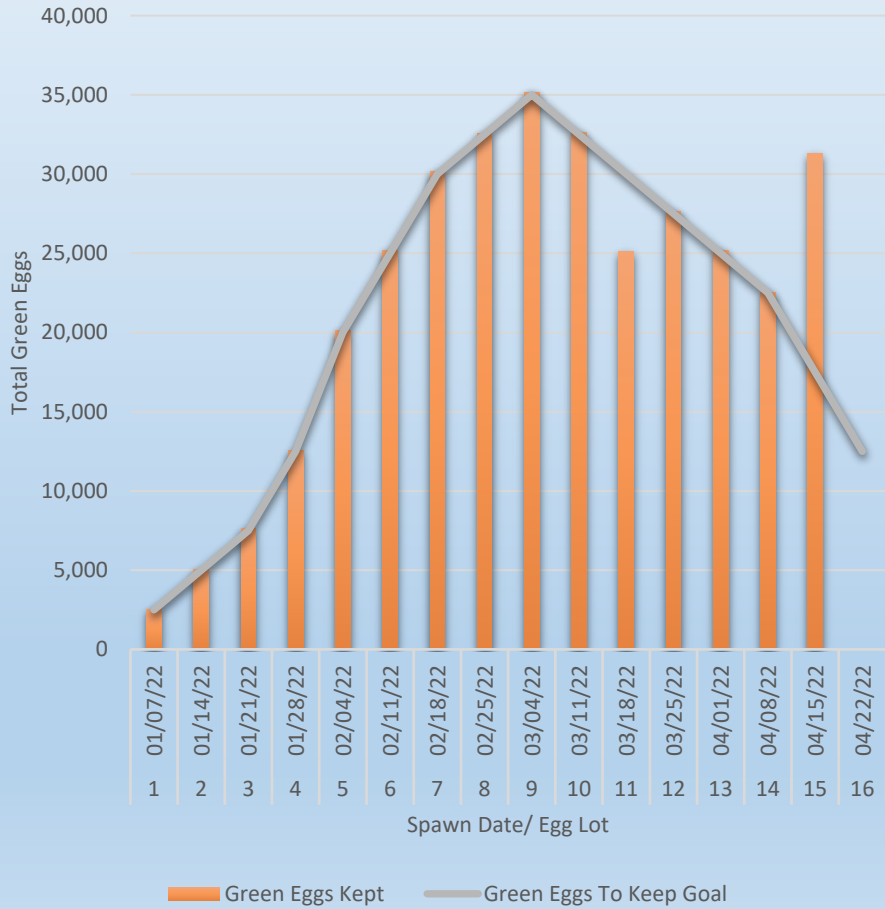


2022 CVFF Year at a Glance

Coyote Valley Spawning Matrix Brood Year 2022



Coyote Valley Green Egg Take Brood Year 2022



Future Program Management

- Steelhead Hatchery Genetic Management Plan Implementation
- Increase the genetic diversity within the hatchery stock
- Increase incorporation of natural origin broodstock into the spawning practices
- Decrease Rearing Densities

