

***NCCC Domain Application of The Nature Conservancy Conservation Action Planning
Coho Salmon Stresses (Impaired Key Habitats by Life Stage)***

Example 2 of 3

Spawners

Passage: Impairment from ocean upstream
Passage: Physical impediments to upstream spawning habitat
Flow: Hydrologic impairment (passage/spawning)
Substrate: Insufficient quantity of qualifying spawning habitat
Substrate: Inadequate spatial distribution of qualifying spawning habitat
Turbidity: Elevated levels

Egg

Flow: Hydrologic impairment (incubation)
Substrate: Increased frequency of scour events
Substrate: Impaired gravel quality

Emergent Fry

High Velocity Refuge: Diminished quantity and quality
Turbidity: Elevated levels

Summer Rearing

Flow: Hydrologic impairment (instantaneous flow reduction)
Flow: Hydrologic impairment (chronic flow reduction)
Riparian Condition: Reduced canopy
Riparian Condition: Altered riparian tree species composition and structure
Water Quality: Altered EPT diversity
Pool Habitat: Reduced proportion of stream length in pool habitats
Pool Habitat: Reduced pool shelter rating
Pool Habitat: Decreased pool depths
Water Quality: Elevated temperature

Winter Rearing

Pool Habitat: Reduced key pieces of LWD
High Velocity Refuge: Departure from historical floodplain connectivity
High Velocity Refuge: Diminished quantity and quality
Turbidity: Elevated levels

Smolts

Passage: Impairment to downstream movement (other than flow)
Flow: Hydrologic impairment (minimum depth March through June)
Flow: Hydrologic impairment (hydrologic function and variability March through June)
Passage: Impairment from watershed to ocean
Estuarine: Hydrologic impairment (freshwater inflow)
Estuarine: Reduced complexity (depth, LWD, and other habitat elements (e.g. eelgrass))
Pool Habitat: Reduced proportion of complex pools along migration corridor
High Velocity Refuge: Reduction of LWD
Estuarine: Departure from historical extent

Multiple Life Stages

Altered Hydrograph (impervious surfaces)
Altered Hydrologic Maturity (stand age)
Altered Sediment Transport
Altered Riparian Condition
Water Quality: Altered water chemistry
Increased watershed disturbance