

Salmon Ecosystem Presentation





Salmon Ecosystems

Salmon Habitat: Build a Healthy Salmon Stream



Select a life stage to learn more about its ecosystem requirements

[Eggs and Alevin](#)

[Fry](#)

[Smolt](#)

[Ocean Adult](#)

[Spawning Adult](#)



Eggs and Alevin

Water Quality

- Little to no silt
- Flowing water
- Oxygen rich
- Clean and cold

Physical Features

- Soil and roots for filtering rainwater and runoff
- Pools with deep still water for habitat and riffles for adding oxygen to the water
- Vegetation for... shade or to hide
- Gravel and rocks to... nest in, grow/hatch and hide from predators

Threats to Egg/Alevin Survival

- Predators – birds and other fish
- Excessive silt or sediment
- Gravel disturbances
- Low oxygen
- Pollution
- Low water levels
- Climate change

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Fry

Water Quality

- Little to no silt
- Flowing water
- Oxygen rich
- Clean and cold

Physical Features

- Soil and roots for filtering rainwater and runoff
- Pools with deep still water for habitat and riffles for adding oxygen to the water
- Fallen leaves and vegetation to feed aquatic insects that in turn, feed fry
- Fallen logs to...hide and rest behind and/or find food
- Macroinvertebrates to... eat

Threats to Egg/Alevin Survival

- Predators – birds and other fish
- Low oxygen
- Pollution
- Low water levels
- Climate change

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Smolt

Water Quality

- Brackish water (mix of freshwater and saltwater)
- Flowing water
- Oxygen rich
- Clean and cold

Physical Features

- Soil and roots for filtering rainwater and runoff
- Fallen leaves and vegetation to feed aquatic insects that in turn, feed fry
- Fallen logs to...hide and rest behind and/or find food
- Macroinvertebrates, small fish and crustaceans to... eat

Threats to Egg/Alevin Survival

- Predators – birds , seals, sea lions, snakes, orca whales
- Pollution
- Dams
- Human activity that destroy estuaries
- Climate change

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Ocean Adult

Water Quality

- Saltwater
- Oxygen rich
- Clean and cold

Physical Features

- Small fish, crustaceans and squid for food

Threats to Egg/Alevin Survival

- Climate change
- Predators (orca whales, seals, sea lions)
- Dams

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Spawning Adult

Water Quality

- Freshwater
- Oxygen rich
- Clean and cold

Physical Features

- Deep enough water to swim through
- Fish ladders to...pass over dams
- Gravel beds to...make a redd and lay eggs

Threats to Egg/Alevin Survival

- Climate change
- Shallow water in small streams
- Predators (orca whales, bears, otters and birds)
- Dams and culverts
- Habitat loss

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