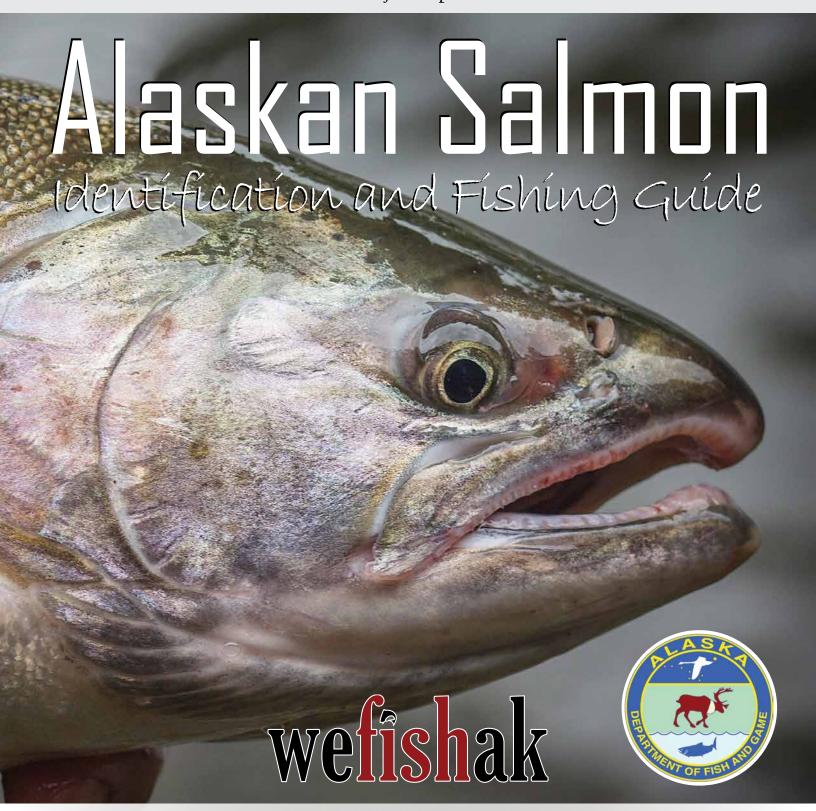
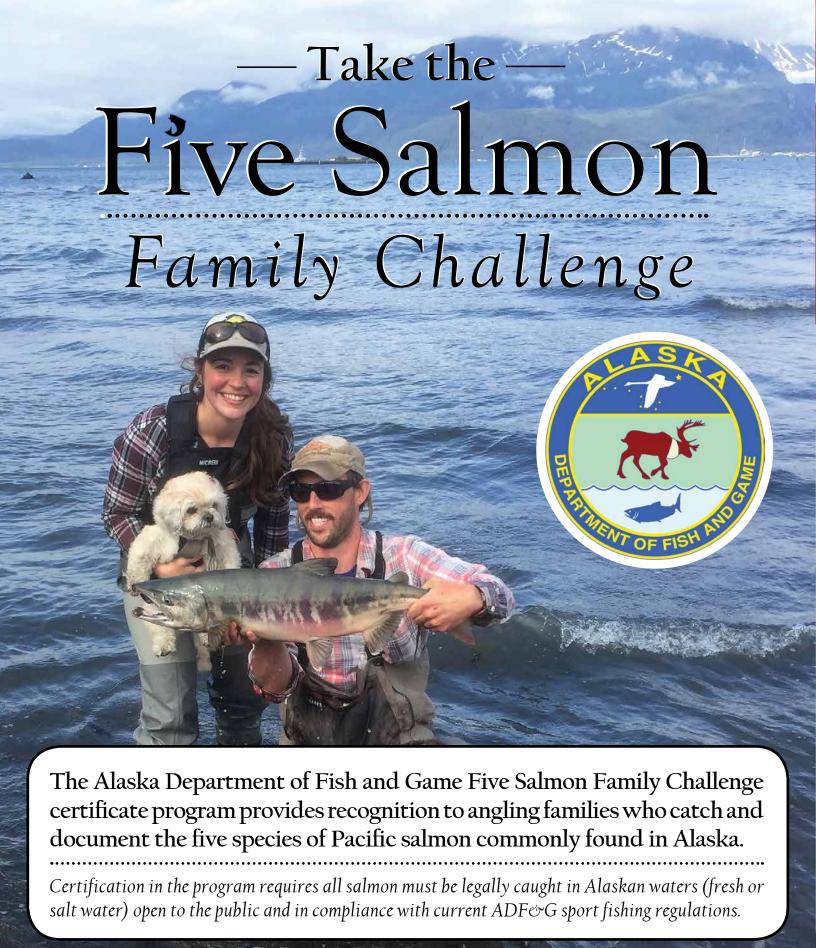
ALASKA DEPARTMENT OF FISH AND GAME Division of Sport Fish



Salmon Life Cycle - Salmon Identification - Caring For Your Catch - And More

Your Guide to Salmon Identification and Fishing in Alaska



Learn more at www.wefishak.alaska.gov

Caring for Your Catch

Alaska salmon are nutritious and delicious, when eaten fresh, or months later. How you care for your catch immediately after catching can have a dramatic impact on the quality and flavor of the fish when served for dinner.

- Once caught, immediately kill the fish with a sharp blow to the head.
- Immediately bleed your catch by cutting or tearing the gills, allowing the blood to pump out.
- After bleeding, gut your catch.
- Keep the fish cold! Ideally, pack the fish on ice or place it in a slush-ice mixture.
- Once your fishing day is complete, process the fish into desired cuts or whole fish, fillets, or serving-sized chunks.
- Vacuum sealing and freezing your catch will greatly improve quality and allow the fish to be stored for months.

Releasing Fish

Not intended to be harvested



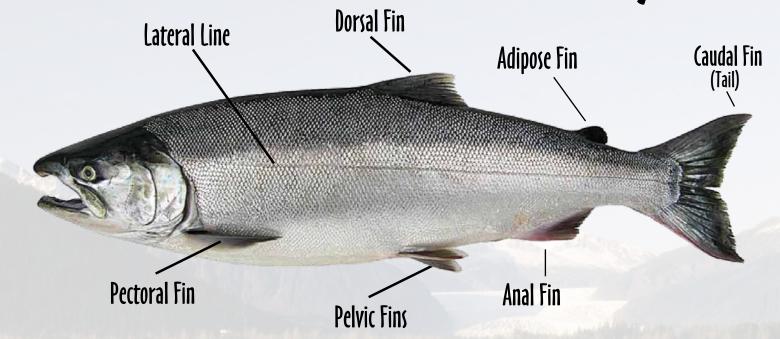
- If you don't plan to keep the fish you catch as food, you must use good catch-and-release techniques.
- In many areas in Alaska, regulations prohibit fish from being taken out of water if they are to be released. Check your local regulations.
- Being careful with your catch greatly increases the chances that the fish will survive. Taking care with undersized or unwanted fish also helps ensure there will be fish for all of us in the future.
- Use heavy tackle and strong line to land fish quickly.
- Wet your hands before touching a fish to prevent breaking their protective slime layer.
- Keep fish to be released in the water.
- Use a soft knotless net.
- Back the hook out the entrance hole.
- If a fish is deeply hooked, cut the line and leave the hook in. It will rust out in a few days.

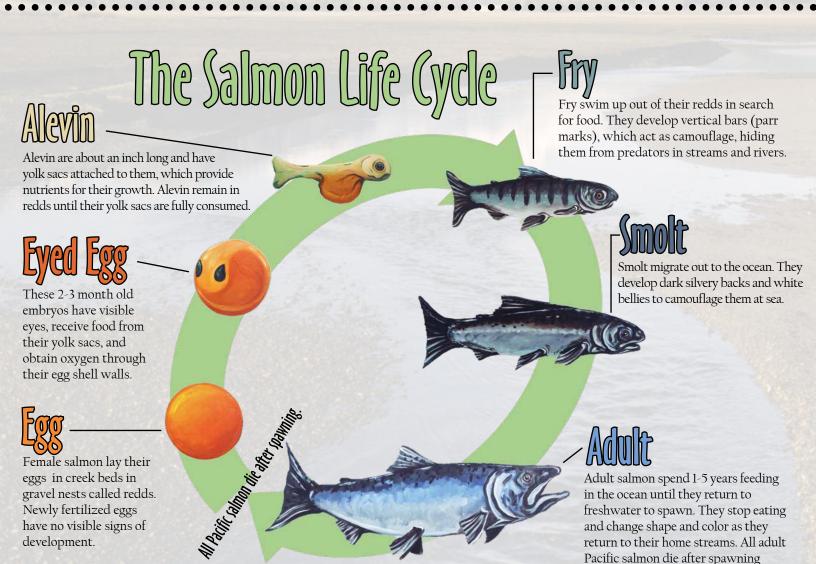
Support your catch facing into the current until it swims from your hands.

Subscribe to our monthly newsletter "Reel Times" and receive monthly fishing tips, videos and recipes.

More information at www.wefishak.alaska.gov

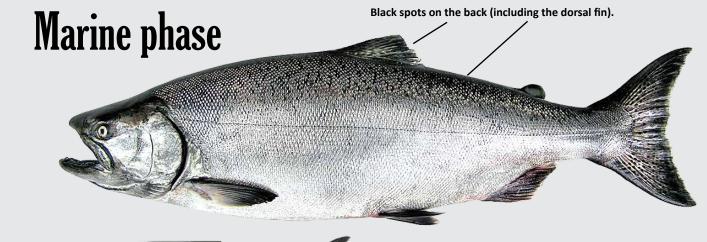
Salmon External Anatomy





Illustrations by Megan Genevieve

Chinook (king) salmon (Incorpyrelius ishawytseha)



Black mouth with a black gumline.

Spots on upper and lower lobes of the tail fin.

Spawning phase



laska's state fish. Excellent table fare because of their high oil content and rich, moist meat. Flesh color can vary between red or white.

Chinook salmon can be found from Southeast Alaska to the Yukon River and some rivers farther north.

The largest of the five Pacific salmon species, adult Chinook typically range between 15 and 40 pounds and between 34 to 50 inches in length. The world-record sport caught Chinook salmon, weighing over 97 pounds, was caught in the Kenai River in 1985.

Once mature, Chinook salmon migrate from the ocean to reach their home or natal streams where they will spawn. Depending on size, female Chinook salmon produce approximately 5,000 to 14,000 eggs. The eggs are deposited in a gravel nest called a redd and can be fertilized by one or more males.

Chinook salmon do not lose their black spots when entering the spawning phase. However, they do turn a deep maroon or dark olive color. The salmon pictured above is an adult Chinook during the spawning phase.

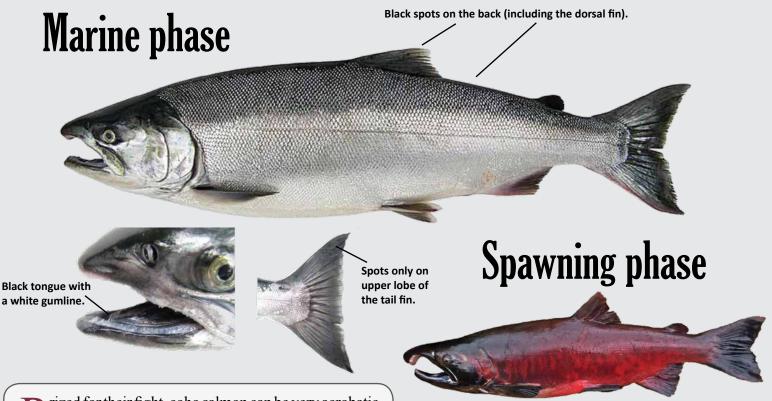


Common fishing techniques:

<u>Marine:</u> Trolling bait (herring) and lures using downriggers and flashers. Casting spinners or spoons. <u>Freshwater:</u> Back-trolling or casting bait (herring or cured salmon eggs) Spin-N-Glo set-ups, lures or flies; slip-bobber set up using cured salmon roe.

Watch our video on how to set up a Spin-N-Glo rig at www.wefishak.alaska.gov

Coho (silver) salmon (Jumbyudus kisutd)



Prized for their fight, coho salmon can be very acrobatic when hooked. Coho are fun to catch on fly fishing gear and traditional rod-and-reel.

Coho salmon can be found throughout the coastal waters of Alaska, and throughout fresh waters that flow to the Pacific Ocean and Bering Sea.

Adult coho salmon usually weigh between 8 and 12 pounds and are between 24 to 30 inches long. In some areas, larger coho can be caught. The state record, caught in 2011, weighed over 26 pounds.

Coho salmon enter spawning streams from July to November – usually during periods of high runoff. Coho salmon occur throughout stream networks but are known for favoring the headwaters of streams. Adults fight their way into small creeks and streams following fall rains before spawning, where the female lays between 2,400 and 4,500 eggs in a gravel nest or redd.

Coho salmon do not lose their black spots when entering the spawning phase. However, they do turn a deep maroon color. Males develop a pronounced kype, or hooked jaw. The salmon pictured above is an adult coho during the spawning phase.



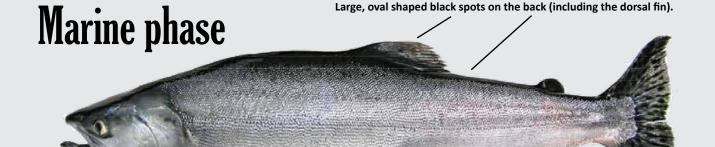
Common fishing techniques:

Marine: Trolling bait (herring) and lures using downriggers and flashers.

<u>Freshwater:</u> Back-trolling using cured salmon eggs; flies and lures, or bank-casting using cured salmon eggs, lures, or Spin-N-Glo set-ups.

Watch our video on using a slip-bobber set up to fish for coho salmon at www.wefishak.alaska.gov

Pink (humpy) salmon (Oncorhynchus gorbuscha)





Oval shaped spots on upper and lower lobes of the tail fin. Spawning phase



P ink salmon are probably the most abundant Pacific salmon species in Alaska.

Pink salmon are easy to identify by the large black oval spots on their backs and on both lobes of their tail fin. In addition, they have small scales. During spawning, males develop a very large, and distinctive, "hump" on their backs, which gives them the name "humpy." Pink salmon are bright silver when in the ocean, and then change to a dull gray back and white belly once they return to their home or natal freshwater stream.

The smallest of the five Pacific salmon species, adult pink salmon average between 3 and 4 pounds and are typically between 15 to 24 inches long.

Mature pink salmon head up their home or natal rivers to spawn like other salmon, but many spawn in inter-tidal areas. The female pink salmon produces between 1,500 and 2,000 eggs. Frequently their trip to sea starts immediately upon emerging from their gravel nest or redd.

Pink salmon do not lose their black spots when entering the spawning phase. However, males develop a pronounced hump on their back. The salmon pictured above is an adult pink during the spawning phase.



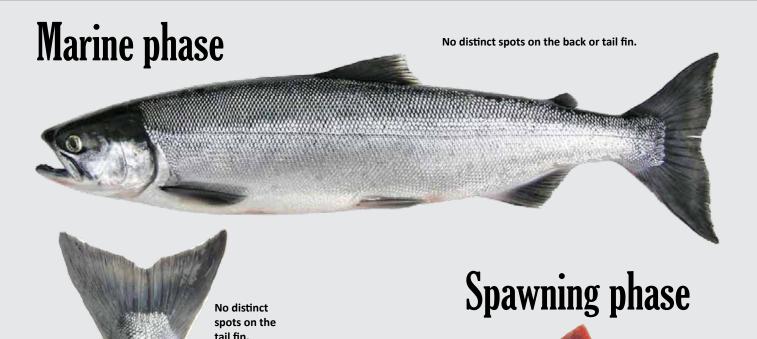
Common fishing techniques:

Marine: Trolling bait (herring) and lures using downriggers and flashers.

<u>Freshwater:</u> Back-trolling or casting bait (herring or cured salmon eggs), lures or flies.

Watch our video on how to tie a streamer pattern for pink salmon at www.wefishak.alaska.gov

Sockeye (red) salmon (newhyalus arks)



ockeye salmon are abundant, and their dark red meat is a dinner favorite, making it the fish that fill the freezers of most Alaskans.

Adult sockeye salmon can be identified by a lack of black spots on their body or tail. When in saltwater they are bright silver, but once in fresh water, their bodies turn bright red, with a green head. Males develop a humped back, with hooked jaw (kype) and exposed sharp teeth.

Found throughout the North Pacific and Arctic oceans, sockeye salmon can be found in abundance in many of Alaska's freshwater systems that drain into these oceans.

Sockeye salmon range in size from 4 and 12 pounds and are typically between 18 to 24 inches long. Beginning in May, and continuing until late fall, mature sockeye salmon flood back into their home or natal streams to spawn and die. A female sockeye salmon lays between 2,000 and 4,500 eggs.

Sockeye salmon turn a deep maroon color. Males develop a pronounced kype, or hooked jaw. The salmon pictured above is an adult sockeye during the spawning phase.



Common fishing techniques:

<u>Freshwater:</u> Most anglers fish for sockeye using a fly with a short-distance cast upriver and drifted downstream by the river current. Small shrimp style flies work well for sockeye.

Watch our video on how to tie a sockeye fly at www.wefishak.alaska.gov

Chum (keta/dog) salmon (Incorhynchus keta)

Marine phase

No distinct spots on the back or tail fin.



No distinct spots on the tail fin.
Notice silver striations.

Spawning phase



hum salmon are a lot of fun to catch using a traditional rod and reel or a fly rod. They are excellent fighters and make strong runs when hooked.

Chum salmon are easily identified in their spawning colors when green and red vertical bars appear on their sides. Males also develop the classic hooked jaw, or kype, accompanied by large visible teeth.

Found throughout marine waters of coastal Alaska, chum salmon can also be found in most major river systems when returning to spawn.

Chum salmon typically weigh between 7 and 18 pounds, and are between 24 to 34 inches long.

Mature chum salmon return to their home or natal streams in July and August, and their migration can range from the mouths of rivers to thousands of miles upstream. Female chum salmon can lay between 2,400 and 3,100 eggs.

Chum salmon develop calico markings on their sides during the spawning phase. Males develop a pronounced kype, or hooked jaw. The salmon pictured above is an adult chum during the spawning phase.



Common fishing techniques:

<u>Marine and freshwater:</u> Chum salmon will bite on flies, and often bait or lures. Once hooked, they are a hard fighter.

Watch our video on how to tie a streamer pattern for chum salmon at www.wefishak.alaska.gov

No matter where you are in Alaska Stay Bear Aware

Bears and salmon go hand-in-hand. You are responsible for your own safety while fishing in bear country. Whether fishing, traveling to and from your favorite fishing spot, or camping, be aware of bears.

- **NEVER** let bears associate people with food.
- **Keep fish stringers and coolers closely attended when fishing.**
- Always wear your day pack when fishing, especially if it contains food.
- **Give up your fishing spot to an approaching bear.**
- When reeling in a fish, if the splashing attracts a bear, either let line out, or cut your line.
- If possible, fillet salmon at an established fillet station or fillet at home.
- If you do fillet on the river, don't let fish carcasses collect on the riverbank. Chop them up and throw them into deep, fast moving water.
- Always put fish carcasses or waste in secured dumpsters or garbage cans or the landfill.





Learn more about bears at www.alaskabears.alaska.gov

STOP THE SPREAD OF AQUATIC INVASIVE SPECIES:

Think ahead and save a watershed.

Aquatic invasive species can easily be spread from one waterbody to another. Anglers, boaters and their equipment can play a key role in transporting these pests. It only takes one mistake to infect a new area.

CLEAN — Rinse and remove any mud, sediment, and plants from all gear, boats and trailers, floatplane rudders and floats, or anything that contacts the water.

DRAIN — Drain all water from coolers, bilge pumps, buckets, and wring-out gear before leaving the boat launch or fishing areas.

DRY — To the best of your ability, completely dry gear between water-bodies or trips.

DECONTAMINATE — Freeze or wash gear in 140°F hot water scrubbing with a stiff bristle brush.

Felt-soled waders and wading boots are illegal to wear when sport fishing in Alaska's fresh water.

PLEASE REPORT ANY SUSPECTED INVASIVE SPECIES BY CALLING THE INVASIVE SPECIES HOTLINE:

1-877-INVASIV (1-877-468-2748)



The Alaska Department of Fish and Game complies with Title II of the Americans with Disabilities Act of 1990. This summary is available in alternative communication formals

If you need assistance, please contact the Department ADA Coordinator at (907) 465-6078; TTY/Alaska Relay 7-1-1 of 1-800-770-8973.