Breaking Down the Salmon

Texas Chefs Association State Convention Tyler, Texas 2012

Salmon Topics

- Types of Salmon
- Life Cycle of a Salmon
- Nutritional Facts
- Wild vs. Farm Raised
- Cuts of Salmon
- Price of Salmon
- Whole Salmon Fabrication



Types of Salmon

- Salmon have eight commercially important species and occur in two genera: Atlantic & Pacific
- Salmon is either farmed or caught in the wild
 - Almost 99% of Atlantic salmon is farmed
 - The majority of Pacific Salmon is wild-caught (80%)
- All salmon are classified as oily round fish and produces two filets
- Species range from a maximum weight of 135# (Chinook) to a minimum weight of 15 pounds (Pink)



Types of Salmon: Atlantic

 Atlantic Salmon is found in the Northern Atlantic Ocean and rivers that flow into it.



- May be known as:
 - Black Salmon, Kelt, or Landlock Salmon
- Wild Atlantic Salmon is nearly nonexistent commercially. It is farmed predominantly from aquaculture in Norway, Chile, Canada, the UK, Faroe Islands, Russia and Tasmania in Australia





Types of Salmon: Pacific

- There are seven commercial Pacific Salmon
 - Chinook
 - Largest of the Pacific Salmon
 - Known as King Salmon in the U.S.
 - Farmed in New Zealand which produces ½ of the Chinook world wide





- Chum
 - Least commercially valuable of all salmon
- Coho
 - Ocean caught Coho are industry preferred due to there higher fat content
 - May be know as Silver Salmon





Types of Salmon: Pacific

- There are seven commercial Pacific Salmon (cont.)
 - Pink
 - Smallest and most abundant of the Pacific Salmon
 - Most is wild caught and canned, salted, or smoked
 - Pink salmon roe is also produced commercially for caviar



- Also know as Red Salmon
- Currently listed under the U.S. Endangered Species list, but still commercially available



- Also know as Rainbow Trout
- 11 of the 15 populations are listed as endangered
- Chile is the leader in farmed raised Steelhead



Only found in the western Pacific and is used widely in Japan

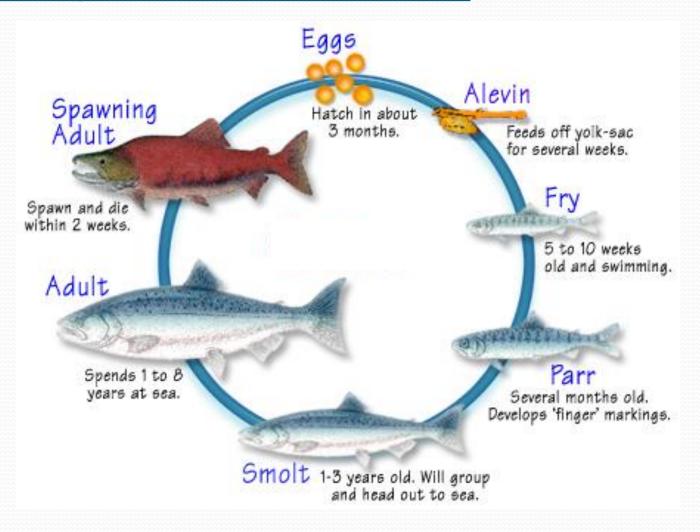








Life Cycle of Salmon



Nutritional Facts

- 6oz portion is 394 Calories.
 - The Mayo Clinic recommend a 3 oz portion twice a week
- High in Omega 3 Fatty Acids
- High in B-Complex Vitamins
 - Niacin
 - B12
- Good source of mono-saturated fats while remaining a low calorie protein choice
- Pacific Wild Salmon is considered to be more healthy than farm raised Atlantic Salmon
- All salmon can contain mercury levels
 - Chilean Salmon showed the lowest levels of contamination

	1020		
Am ount P			
Calories 3	154	46030 287 3	rom Fat 186
		% Da	ily Value*
Total Fat 21g			32%
Saturated Fat 6g			31%
Trans F	at		
Cholesterol 99mg			33%
Sodium 93mg			4%
Total Carbohydrate 0g			0%
Dietary	Fiber Og	- C.	0%
Sugars	0g		
Protein 39	g		
V:1 : - 0	4.007	* V/1	0 100/
<u>Vitamin A</u>	V	• Vitamin	
Calcium		• Iron	3%
		iased on a 2,01 idher or lower	00 calorie diet. depending on
your calorie n	eeds: Calories	2,000	2,500
Total Fat Sat Fat Cholesterol Sodium Total Carbohy Fiber	Less than Less than Less than Less than /drate	65g 20g 300mg 2,400mg 300g 25g	80g 25g 300mg 2,400mg 375g 30g

Wild vs. Farmed Raised

Farm Raised Pros

• The major "pro" of farmed salmon is that they allow for a high yield of fish without the risk of overharvesting and depleting wild populations.

Farm Raised Cons

- Concentrated animal-feeding operations (CAFOs)
 - Thousands of fish are crammed into pens, which leads to the growth of diseases and parasites that require antibiotics and pesticides.
- With offshore farms, nitrogen and phosphorous from feed and waste lead to algae blooms that can contaminate surrounding water.
- Food fed to farmed fish is partially composed of wild-caught fish that may be contaminated with chemicals such as PCBs and cancer-causing dioxin.





Wild vs. Farmed Raised

• Wild Caught Pros

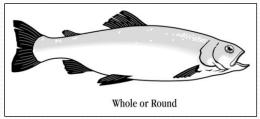
- Less disease & parasites
 - No antibiotics or pesticides
- Environmentally sound
- Claimed to have better taste
- Clamed to have a better nutritional value

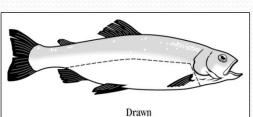
Wild Caught Cons

- Overharvesting is a serious threat to many species.
 - Fisherman have increased their catch 400 percent in the last 50 years

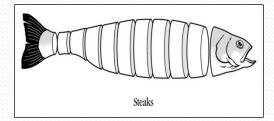


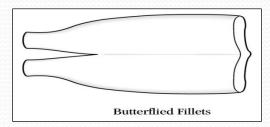
Cuts of Salmon

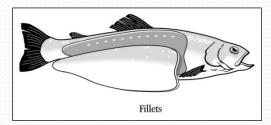














Price of Salmon



• Atlantic Salmon : Filet Skin-On

• Coho: Whole

• Chinook (King): Whole

• Chinook (King): Portioned /Fresh

Sockeye: Portioned / Fresh

Avg. #

<u>Price</u>

10-12# \$5.30/#

5# \$8.29/#

5# \$13.79/#

7-11# \$7.76/#

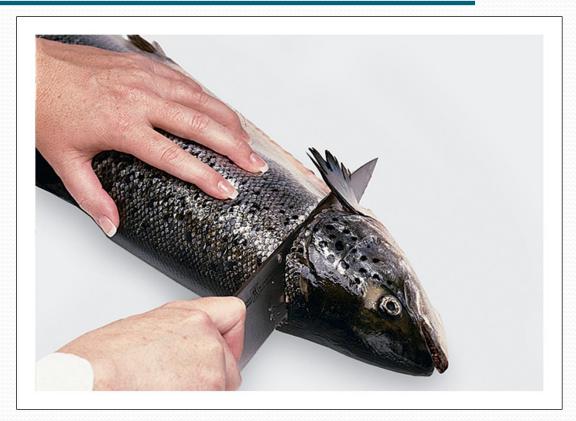
53/6oz \$29.77/#

53/6oz \$22.6o/#

Needed Equipment

- 1. 12" Slicer
- 2. 8" Semi-Flex Boning Knife
- 3. Honing Steel
- 4. Spring Loaded Needle Nose Pliers
- 5. Two Lg. Cutting boards
- 6. Self Draining Ice Bin
- 7. Waste Receptacles
- 8. Sani-Bucket
- 9. Gloves
- 10. Towels
- 11. Portioning Scale

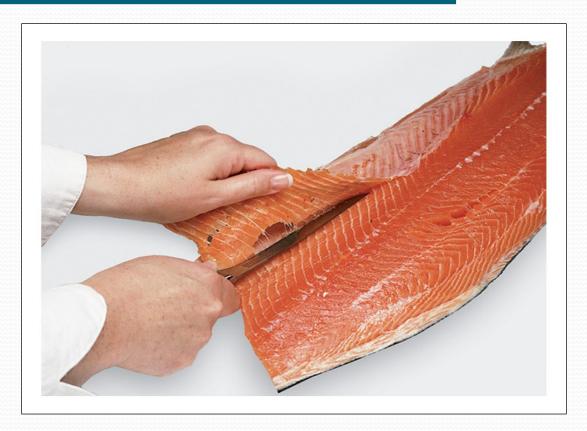




1. Using a chef's knife, cut down to the backbone just behind the gills. Do not remove the head.



2. Turn the knife toward the tail; using smooth strokes, cut from head to tail, parallel to the backbone. The knife should bump against the backbone so that no flesh is wasted; you will feel the knife cutting through the small pin bones. Cut the fillet completely free from the bones. Repeat on the other side.



3. Trim the rib bones from the fillet with a flexible boning knife.



4. Finish the filet by pinning the remaining bones with needle nose pliers.



TCA Demonstration Seminar

Breaking <u>Down</u> the Salmon

Mark R. Schneider
CEC CCE ACE
TCA 2nd Vice President

AWARDED

Successful Completion
Of
Breaking Down the Salmon

Participant

August 4th, 2012

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2 CEH's
Lecture