

Salmon Watcher Program Training Slideshow



Tonight's Format:

- Salmon lifestyle and habitat
 - Salmon Identification
- Things you can do to help salmon
 - Packet contents
 - Data collection

You can follow along and takes notes on the slideshow printout.

Life Cycle of Pacific Salmon

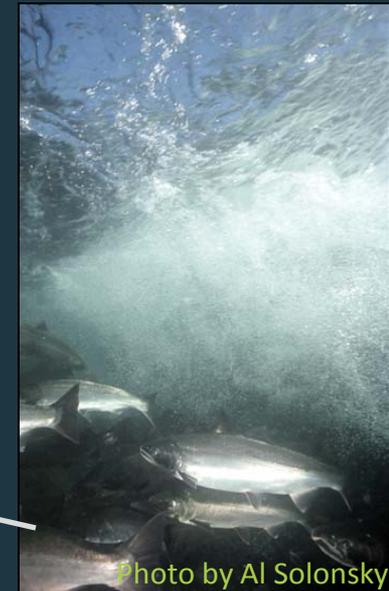
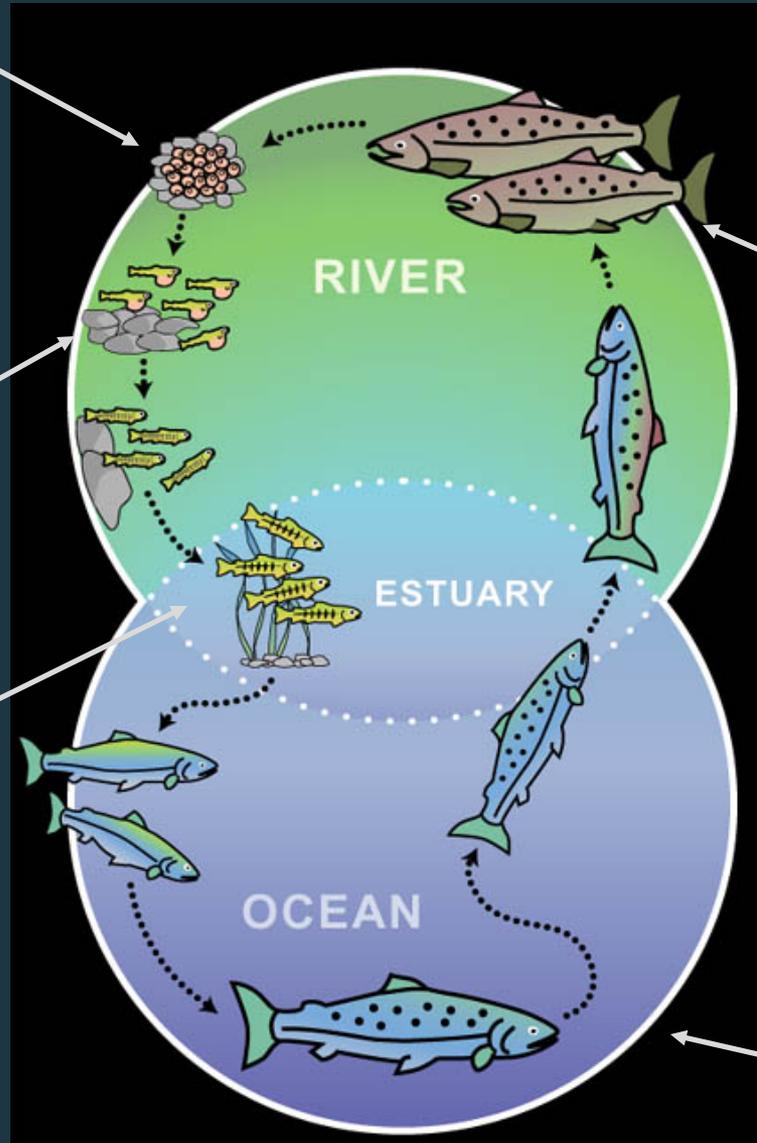


Photo by Al Solonsky



Good Habitat

Shade

Hiding spaces

Cold, clean water

Erosion control



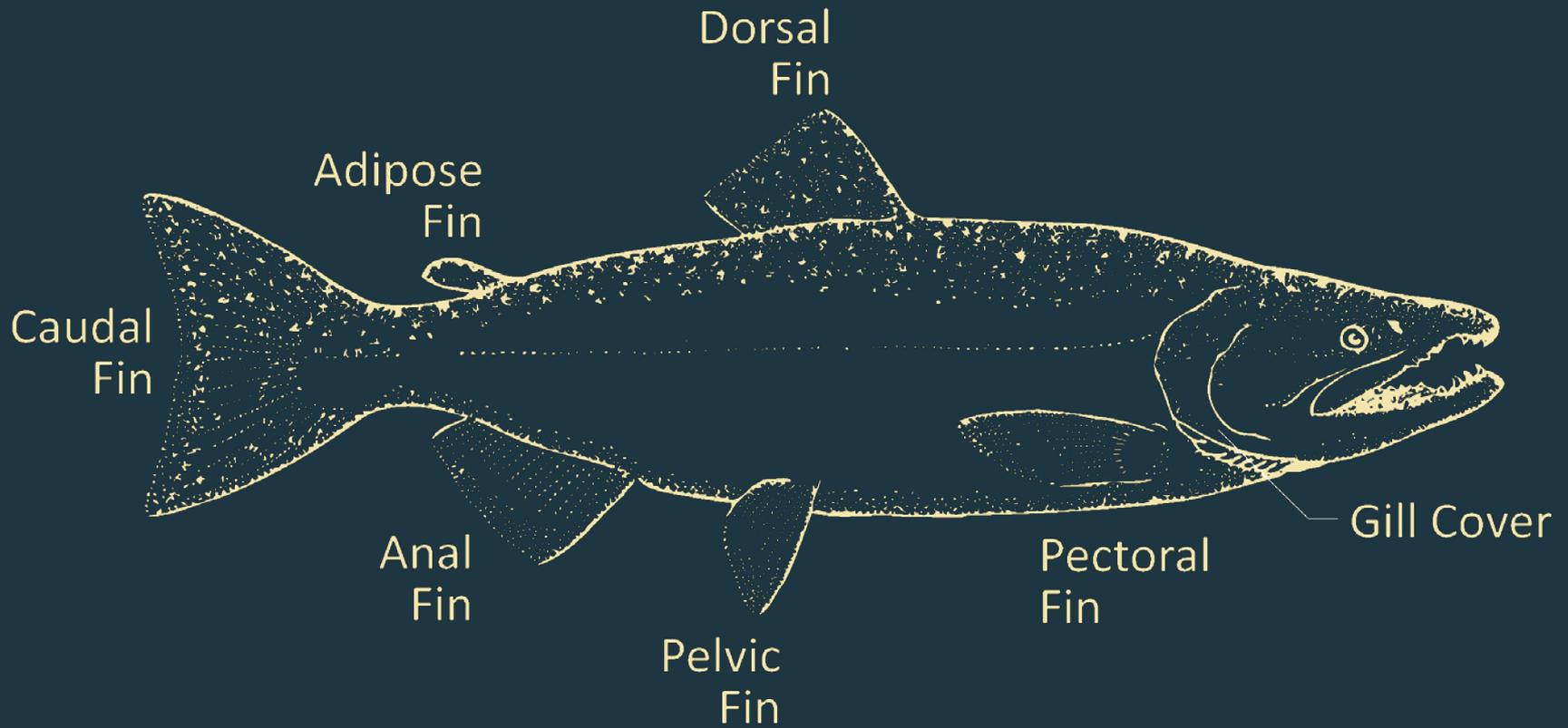
Pools

Complexity

Food supply

Clean gravel

Key Identification Features





Salmon Identification

What not to say:

I saw a *red* fish!

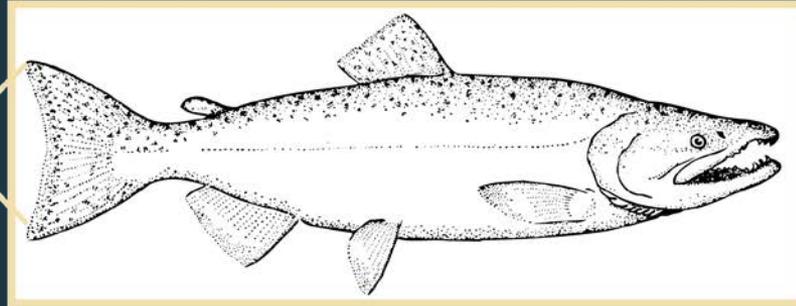
It must be a....

What to Consider When Identifying Salmon

1. Size
2. Spots
3. Color
4. Behavior

Chinook ("King," "Tye," "Blackmouth")

Spots on BOTH
upper and lower
lobe of tail



Female



Olive brown
to dark brown
to red

Male



18-44 inches
(averages 27 inches in length)

Photo by Carla Milesi



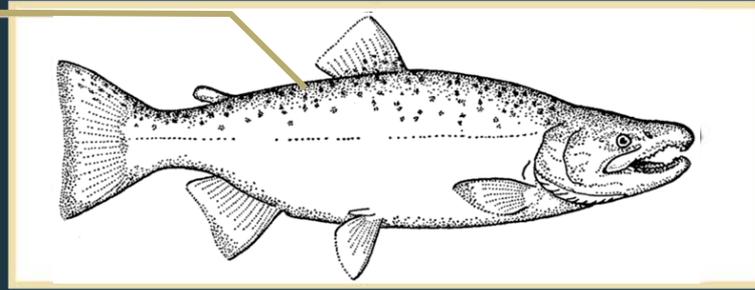
Chinook



Photo by Geoff Clayton

Coho ("silvers")

Round
black spots



Spots on back and
UPPER lobe of
tail fin only



Female

Back and head
dark blue-green

Lower sides
red-purple



Male

18-30 inches
(averages 24 inches in length)

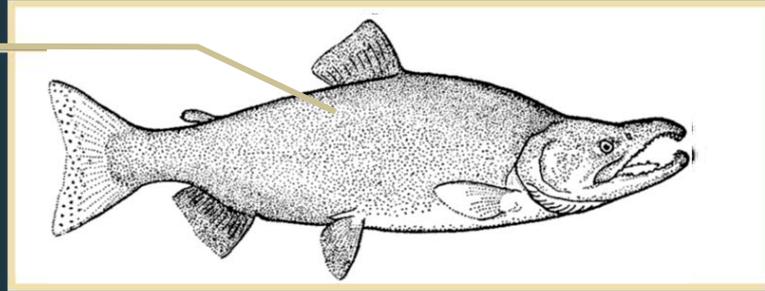
Coho



Photo by Laurie Devereaux, Bellevue Stream Team

Sockeye ("Red")

No obvious spots



Possible dark band



Red body,
green head



Distinctive hump
on males

Distinctive kype
on males

20-28 inches
← (averages 25 inches in length) →

Sockeye



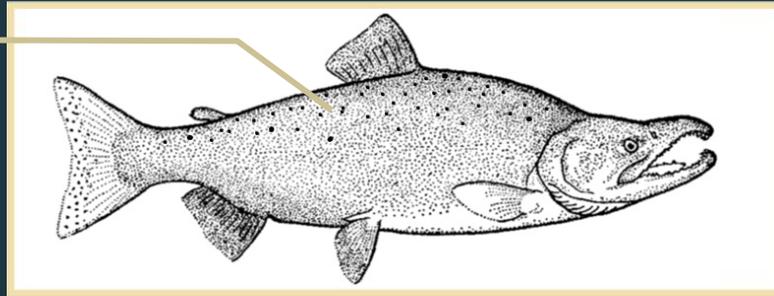
Photo by Kollin Higgins



Photo by Salmon Watcher Katie Klein

Kokanee ("Silver Trout" or "Little Sockeye")

Small dark spots on back



Colors are not as bright as sockeye



10-20 inches
(Averages 15 inches in length)

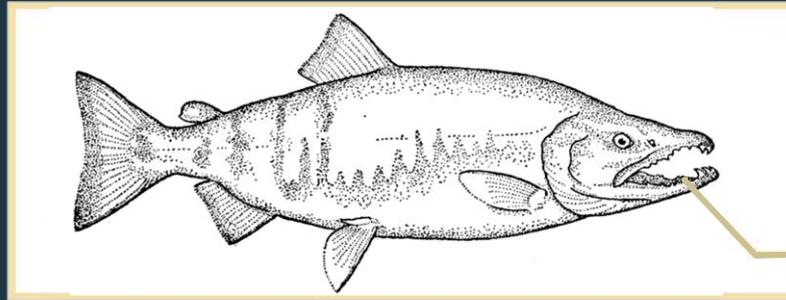


Red Body
Green Head

Kokanee



Chum ("Dog", "Keta")



Well developed teeth

No distinct black spots



Female

Dark blue above with reddish-purple vertical markings



Male

22-38 inches
(averages 24 inches in length)

Chum



Photo by E.R. Keeley



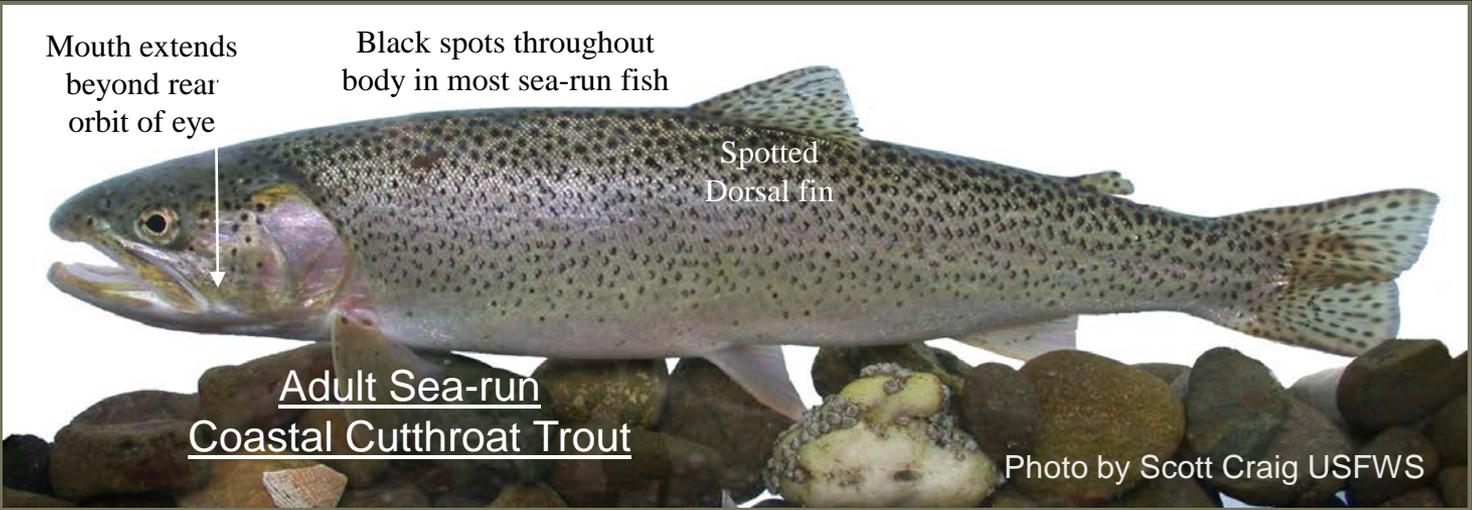
Photo by Catherine Anstett

Cutthroat Trout



You will likely only see *juvenile* cutthroat trout. Coastal streams may see sea-run coastal cutthroat late in the season.

Length = 6-8"



Mouth extends beyond rear orbit of eye

Black spots throughout body in most sea-run fish

Spotted Dorsal fin

Adult Sea-run Coastal Cutthroat Trout

Photo by Scott Craig USFWS

Pink Salmon



Photo E.R. Keeley

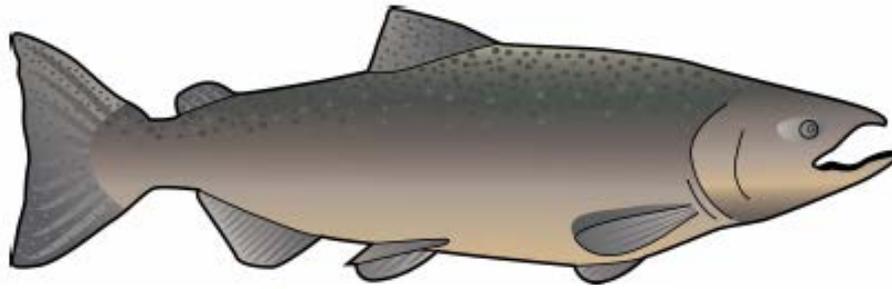
***Pink salmon spawn in
central and south
Puget Sound
drainages ONLY in
ODD numbered years***

Look at boot for scale



Photo by Kirk Anderson

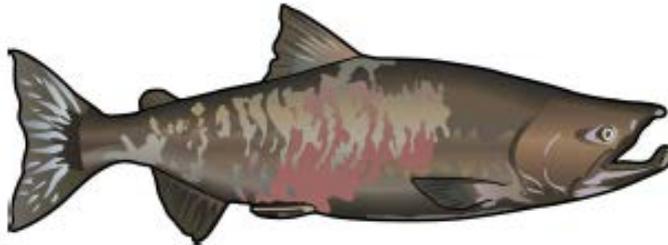
Chinook



Spots

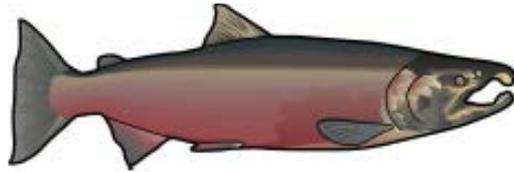
Large, splotchy,
on top and
bottom of tail fin

Chum



No defined spots

Coho



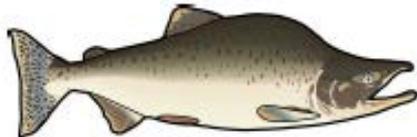
Small and distinct,
only on top half of
tail

Sockeye



No defined spots

Pink



Large, oval

Kokanee



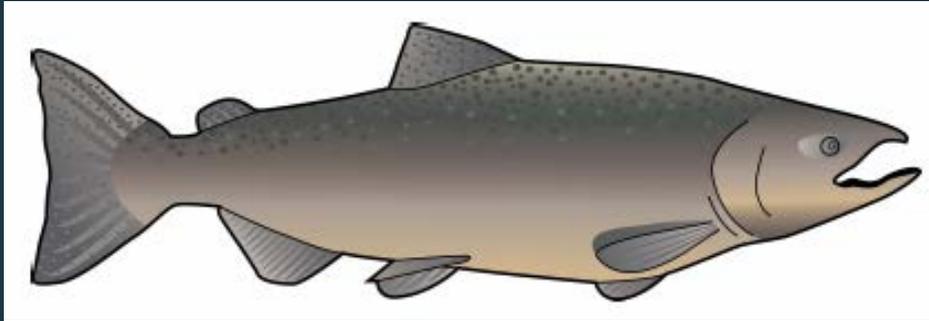
May have small spots

Cutthroat



Numerous small
spots, top & bottom

Chinook



Large splotchy spots

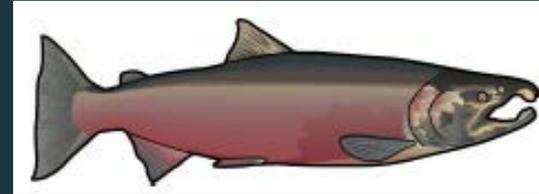
Spots on top & bottom of tail

May have red over entire body

Spawns September through mid
December

Often seen at same time/location
of sockeye

Coho



Small distinct spots

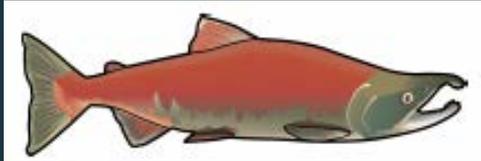
Spots only on top half of tail

Red on belly & gill cover

Spawns mid October
through early January

Very skittish

Sockeye



No distinct spots

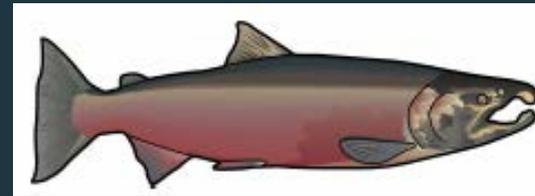
Red body

Distinct green head & tail

Spawns early August through
late December

Spawns in large numbers

Coho



Small distinct spots

Red on belly & gill cover

Back is dark, bluish green

Spawns mid October through
early January

Very skittish

Salmon
Review
Revue













Photo by Vali Eberhardt



Photo by Catherine Anstett





In the field...



Google “King County Beavers” for more info!



No
Disc/temperature
tags in 2013



Call Hans Berge at 206-296-1964

Coho Pre-Spawn Mortality



Photo by Gina Artero, Volunteer

ALERT!

THIS STREAM MAY CONTAIN INVASIVE NEW ZEALAND MUD SNAILS



80+ NZMS

- Are highly invasive and pose a serious threat to our aquatic ecosystems, including salmon.
- Can easily be transported to new streams by people, pets, and equipment.
- Can reproduce/clone very rapidly once in a stream.
- Are very small and very hard to detect, so it's best to assume NSMS are in all streams.

If you are watching more than one site, please carefully review flyer in packet and diligently follow prevention and decontamination procedures.



1. What do you call the metal structure in the photo?
2. Where does the water flowing into it go?
3. Is this water treated before it goes back into the environment?

Stormwater
is not treated



Explore these short films, photos, and articles about this amazing region.

featured topic:
#Journeys
next:
#farming



Filter By: show all articles photos videos audio tips



Videos Life on the Ferries



Photos Procession of the Species



Articles Vision Quest



Articles Migrations of Puget Sound





It's

SALMON SEASON

Again!

NOW FOR THE DATA...

Training Packet

Data Sheets

Helpful Tips

LOW-IMPACT WATCHING...

1. No commitment to turning in data.
2. If you do turn in data, let it be electronic.
3. No mailing in datasheets... and we can send datasheets as PDFs if you need more!
4. No more site labels – just write in your Site ID.

September 17, 2010

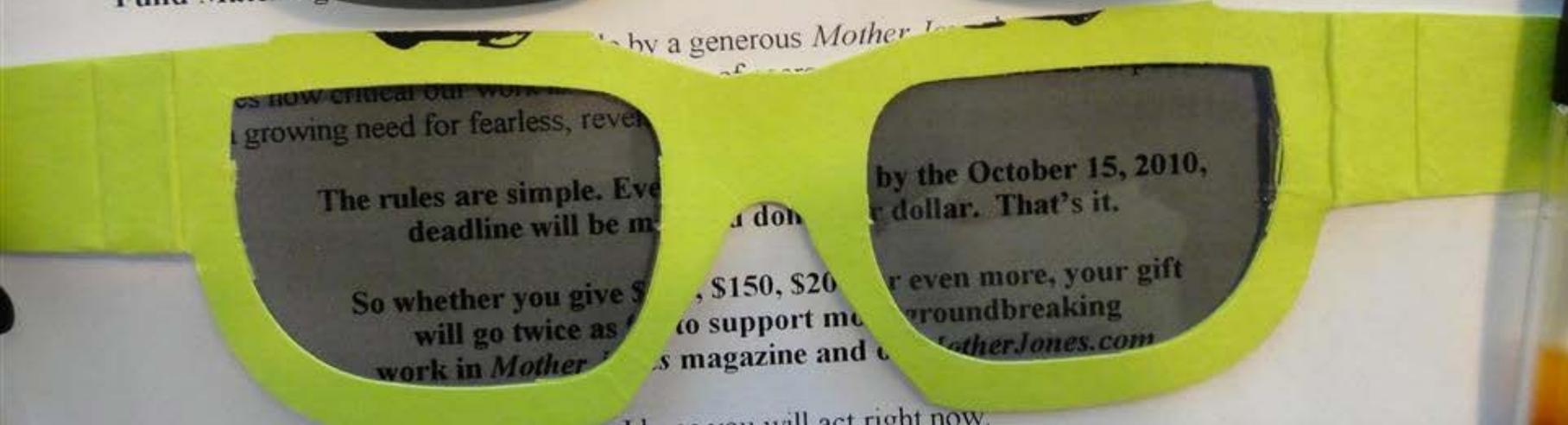
Dear Mr. Reinke,



an investigative journalism. *Mother Jones* is not just writing about the most critical and controversial issues. We are actually making a difference.

Quality journalism is expensive. It's the reason why cash-strapped media outlets are resorting to cheap filler these days. Investigative reporting is indispensable when it comes to keeping people informed and holding our institutions accountable.

That's why I'm excited to let you know about our 2010 **Mother Jones Investigative Fund Matching Gift Campaign.**



...by a generous *Mother Jones* donor.

The rules are simple. Even if you give \$10, your gift will be matched by a generous *Mother Jones* donor. The deadline will be met by the October 15, 2010, deadline. That's it.

So whether you give \$10, \$150, \$200 or even more, your gift will go twice as far. To support more groundbreaking work in *Mother Jones* magazine and on MotherJones.com

Whatever you choose to give, I hope you will act right now.

As you know by now, *Mother Jones* is nonprofit and reader supported. We rely on the contributions of individual supporters like you for over half of our budget. It's not the usual way to do business, but it gives us real strength and independence. Reader support is what keeps us free from commercial sponsors and corporate boardrooms that are squeezing the



Salmon Watcher - Monthly Data Collection Form

Month / Year Oct. 2011

Email Jennifer.vanderhoof@kingcounty.gov

Name Jen Vanderhoof

Phone 206 263 6533

AFFIX LABEL HERE

Or write in Site ID# _____

1. Use Pencil.
2. Record ALL observation dates and times, even when you see Zero fish.
3. If you can't identify a fish, record it as UNID.
4. One species per line.

Did you see mussels or mussel shells at your site?

Yes

No

Date MM-DD	Start Time	End Time	# Citizens Talked With	1" - 6" Juvenile Fish (Y or N)	Species Name* <small>Only write here if you see adult salmon</small>	# Live Adult per species	# Dead Adult per species	Total Adult Fish Count (live + dead per species)	# of fish with no adipose fin ("pinhead")	Did you encounter anything requiring attention? If so, did you notify anyone?	Comments? Tags? (redds present, notable weather)
10-2	10:00	10:15	-	Y	-	6	0	-	-		
10-3	1800	1830	1	N	-	0	0	-	-		
10-7	0835	0900	-	N	SOCK	1	0	1	-		
					UNID	2	0	2	-		Swam by quickly
10-15	1700	1715	1	N	SOCK	5	1*	6	-		* Same Dead Sockeye
					UNID	0	1	1	-		
10-18	0930	0945	-	Y	-	0	0	-	-		
10-23	1230	1300	-	N	COHO	1*	0	1	1		* See back
					SOCK	3	1	4	-		

*Key: COHO-Coho, CHIN-Chinook, SOCK-Sockeye, CHUM-Chum, KOKA-Kokanee, TROU-Rainbow cutthroat trout, UNID-Unidentified

Please return form during the first week of the following month.

If you have any questions, call **Jennifer Vanderhoof** at 206-263-6533 or **Laurie Devereaux** at 425-452-5200. Thank you so much!

This project is sponsored by the Cedar/Sammamish/Lake Washington Watershed Forum, King County Water and Land Resources Division, Cities of Bellevue, Bothell, Issaquah, Kirkland, Renton, Redmond, Seattle, and Woodinville.

Please do not write below this line

Data entered on _____ Initial _____. Data checked on _____ Initial _____. Datasheet #: _____.

Salmon Watcher - Monthly Data Collection Form

Jennifer Vanderhoof
 @ Kingcounty.gov
 206-263-6533

5
 Denny Creek
 Holmes Pt. Drive
 King Co 206-263-5086

ZEROS!

Did you see mussels or mussel shells at your site?
 Yes No

Start time	End time	Fish (Y or N)	Only write here if you see adult salmon	Adult per species	Total Adult Fish Count (live + dead per species)	# of fish with no adipose fin ("clipped")	Did you encounter anything requiring attention? If so, did you notify anyone?	Comments? Tags? (redds present, notable weather)
12-15	1515	N	-	0	0			
12-15	1500 1515	N	-	0	0			
12-15	1500 1530	N	-	0	0			
12-20	1530 1545	N	-	0	0			
12-22	1445 1515	Y	-	0	0			

*Key: COHO-Coho, CHIN-Chinook, SOCK-Sockeye, CHUM-Chum, KOKA-Kokanee, TROU-Rainbow or cutthroat trout, UNID-Unidentified

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Please do not write below this line

Data entered on _____ Initial _____. Data checked on _____ Initial _____. Datasheet #: _____.

ONLINE DATA ENTRY

Advantages:

- Fish alerts
- Fewer errors
- More efficient

The screenshot shows the 'Salmon Watcher Data Online' Administrator's Home page. The page has a dark blue header with the King County logo and navigation links: HOME | NEWS | SERVICES | DIRECTORY | CONTACT | Search. Below the header, a breadcrumb trail reads 'You're in: Salmon Watcher > Administrator's Home'. A left sidebar contains a menu with options like 'Manage Users', 'Manage Sites', 'Manage Sampling Seasons', 'Manage Trainings', 'Manage Datasheets', 'Manage Observations', 'Manage Tasks', 'Logout', 'Salmon and Trout', 'WLR Division', and 'Natural Resources and Parks'. The main content area is divided into several sections: 'Administrative Needs' (Volunteer List, Admin List, Jurisdictions, Sampling Seasons, Task List, Training List); 'Data Entry and Checking' (Enter New Observation, Enter new Datasheet, Datasheets without data, Check Data, Diagnostic report: Observations, New and Anomalous Records); 'Frequently Used Queries' (Observation List, Datasheet List, Site Queries, Multiple Volunteer queries); 'Basic Lists' (Site List, Stream List, Basin List, Species List); and 'Annual Report Queries' (Fish Presence Tables, Basin Summary Tables, Fish Summaries, Observation summary, Basin and jurisdiction report, Uppermost Sites, New sightings report). A 'Top Secret' warning is visible at the bottom.

- If you do online data entry, you do not have to mail in your hard copies!
- You will be emailed a link to the site, login, and password.

WHAT YOU SHOULD BRING



- Data sheets
- First Fish forms
- Salmon ID materials
- Digital Camera /mobile
- Pencils NO pens, please!
- Polarized glasses
 - Raingear
 - Clipboard
- A Buddy! (for fun & safety)
 - Orange vest (optional for safety)

IMPORTANT TIPS!

- Stay on public property at all times unless your coordinator has written permission from the property owner (or you are the property owner).
- View after a rain, as soon as the water clears
- Use polarized glasses
- Allow 15 solid minutes at a stationary viewing spot
- Be there before it gets too dark
- Wear dark clothes and move slowly – sudden movements or loud talking might frighten fish

VERY IMPORTANT

- If you decide to take the data-route, please turn in all watch dates, even if you see no fish.
- Only turning in dates where you saw fish will skew the data.

SALMON WATCHING BASICS

When do we start watching?

Right now!!

How often do we watch?

Twice a week.

How long do we watch for?

15 minutes.

When do we stop watching?

End of December.

SALMON WATCHER ONLINE!

www.kingcounty.gov/salmonwatcher

- Stream-specific fish ID help!
- The slide show will be placed online
- Fish ID Gallery
- Annual reports & maps since 1998

And of course, fish for us on Facebook – and use it to communicate with other volunteers!

The Facebook logo, consisting of the word "facebook" in white lowercase letters on a blue rectangular background.



Salmon and trout

Science, volunteer opportunities, and Endangered Species Act response

You're in: Salmon and trout » Salmon Watcher Program

Salmon and trout

Salmon and trout identification

Salmon Watcher Program

Want to Volunteer?

Information for our Volunteers

Helping Salmon

Program Partners

Fish Identification Gallery

Salmon Watcher Monitoring Site Viewer

Salmon Distribution Maps

Annual Reports

Stream List

Salmon viewing locations

Kokanee

Bull Trout White Paper

Core Areas: A Framework for Identifying Critical Habitat for Salmon

Riparian vegetation

Road to Recovery Video

Archived news

Site map

Trees for Streams workshop

Salmon Watcher Program *Volunteer Monitoring Program*

Salmon Watcher is a multi-jurisdictional effort focused at protecting a Pacific Northwest treasure and educating the community in the process. The 16-year-old program involves volunteers watching streams for spawning salmon in King and Snohomish Counties. This effort mainly focuses on waters within the Lake Washington Watershed.

Want to *become* a Salmon Watcher? Go to our [Volunteer page](#).

Already a Salmon Watcher? Go to our page for [Active Volunteers](#).

Want to help salmon? We've got some great ideas listed on the [Helping Salmon page](#).

Need to report a code violation? More information can be found on the [Helping Salmon page](#).



This program is conducted in cooperation with the King County Water and Land Resources Division, Bellevue Stream Team, Redmond Stream Team, and the cities of Seattle, Bothell, Kirkland, Renton, Woodinville, and the Vashon-Maury Island Land Trust, with financial support from the King Conservation District.

CHOOSING A SITE

Here's how it works:

- BEFORE YOU GET UP, please fill out the questions on the back of the agenda. This is new and important this year
- Next, find your area map
- Choose a site – prefer multiple sites are all in one stream
- Fill out a waiver form—indicate your site(s) on the form
- Write down anything you need (maps, directions, new site ID#)



Thank you for your contribution!
We couldn't do it without you.