



Restoring Wild

Salmon

Hamma Hamma Steelhead Recovery Program

- Authors
- Rick Endicott
- Joy Lee
- Kathy Hopper
- Dr. Barry Berejikian

Organization


Long Live the Kings

Long Live the Kings

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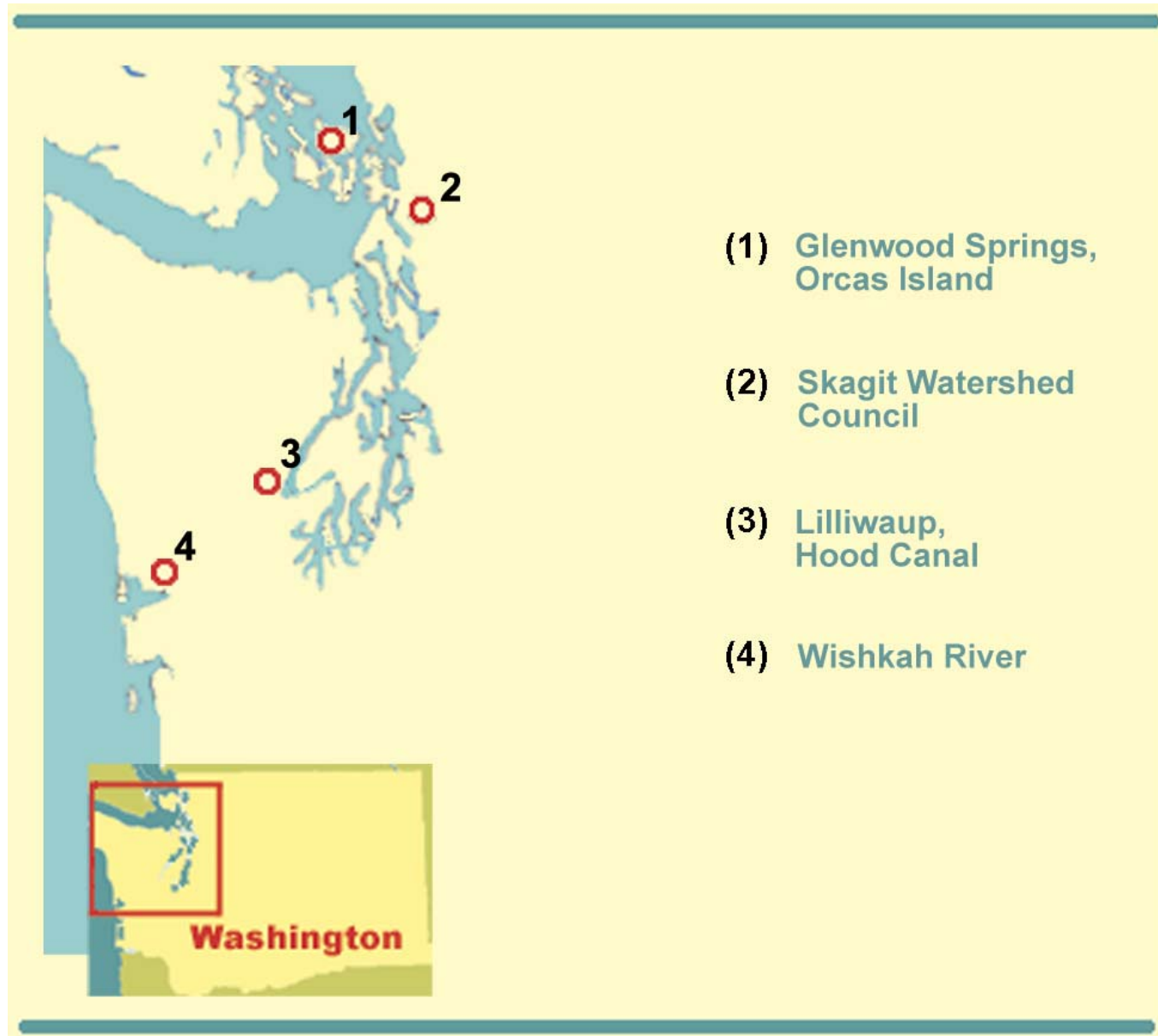
NMFS



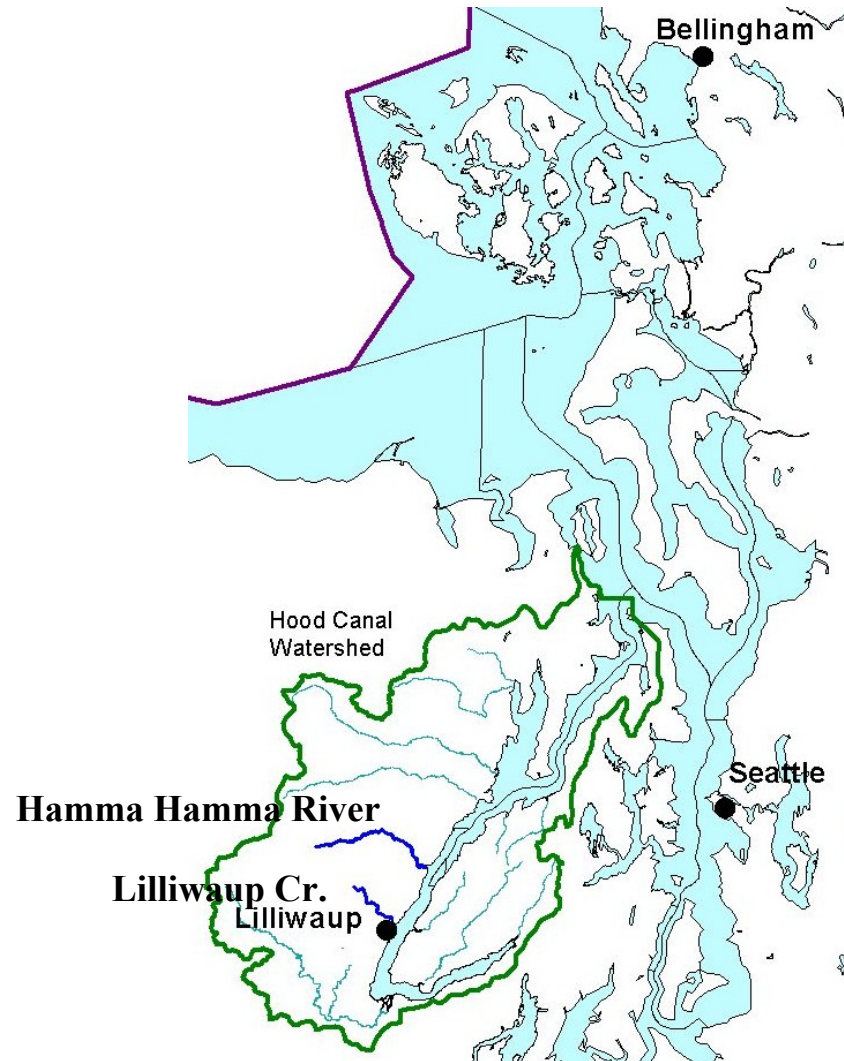
The background of the slide is a blurred photograph of a river. In the upper left, a waterfall cascades over dark rocks. In the lower center, a salmon is captured mid-jump, its body arched and its fins spread, creating a splash of white water. The overall scene is dynamic and naturalistic, emphasizing the organization's focus on wild salmon restoration.

Long Live the Kings (LLTK) is a private,
non profit organization committed to restoring
wild salmon to the waters of the Pacific
Northwest.

LLTK Field Projects in Western Washington



Hood Canal



Lilliwaup Facility



Hamma Hamma River



Extinction Vortex

Winter Return Yr.	Run Size
1979-80	140
80-81	75
81-82	191
82-83	69
83-84	248
84-85	258
85-86	62
86-87	81
87-88	45
88-89	20
89-90	9
90-91	9
91-92	6
92-93	3
93-94	0
94-95	0
95-96	0



Methods



Summary of redds identified, sampled, and embryos collected over the first four years of the project.

Year	Redds observed	# of Redds pumped (% with eggs)	Numbers of eggs collected from individual redds	Proportion of live embryos	Total live embryos collected
1998	11	10 (90%)	8,41,315,431,460,533,554,680,1015,1164	0.90	4,683
1999	11	11 (55%)	77,367,465,504,556,619	0.96	2,588
2000	12	12 (75%)	11,24,92,127,174,235,302,307,425	0.98	1,622
2001	5	5 (75%)	0, 250, 298, 300, 673	0.84	1,271

Rearing and release strategies

1. Smolt rearing (age-2 release)

Lilliwaup Hatchery (50%)



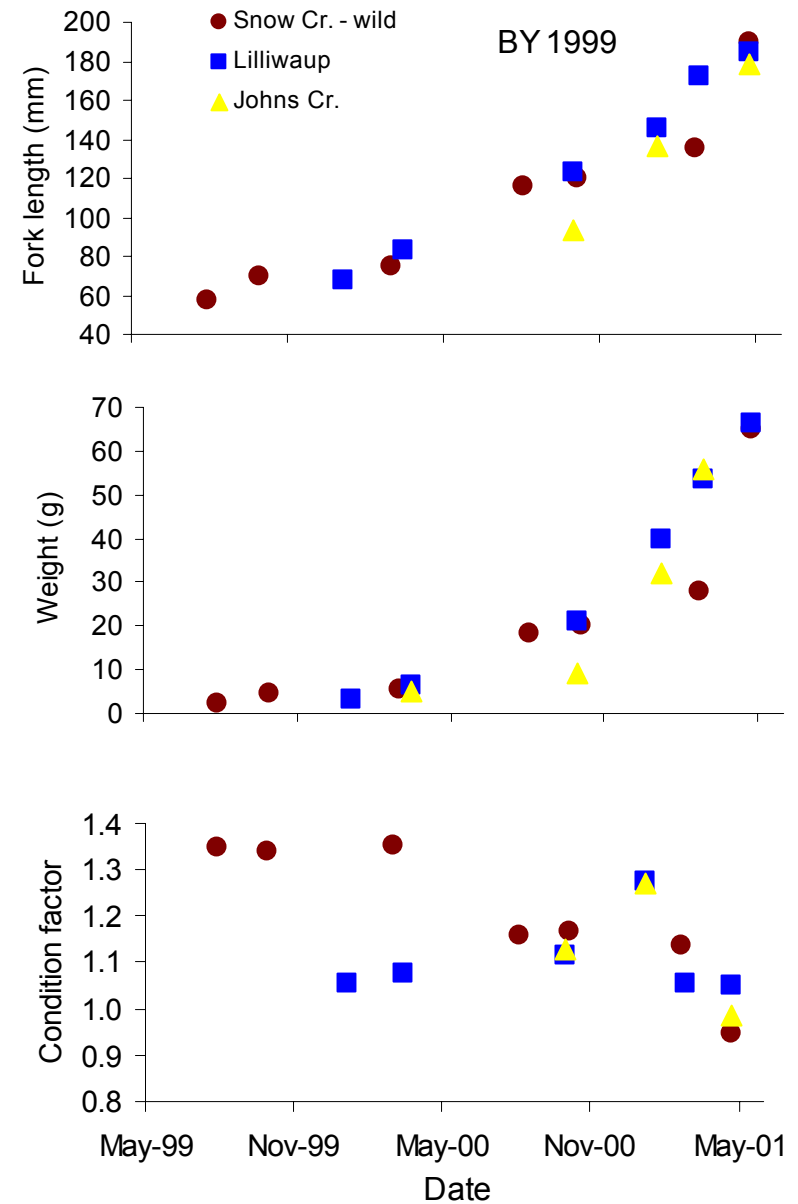
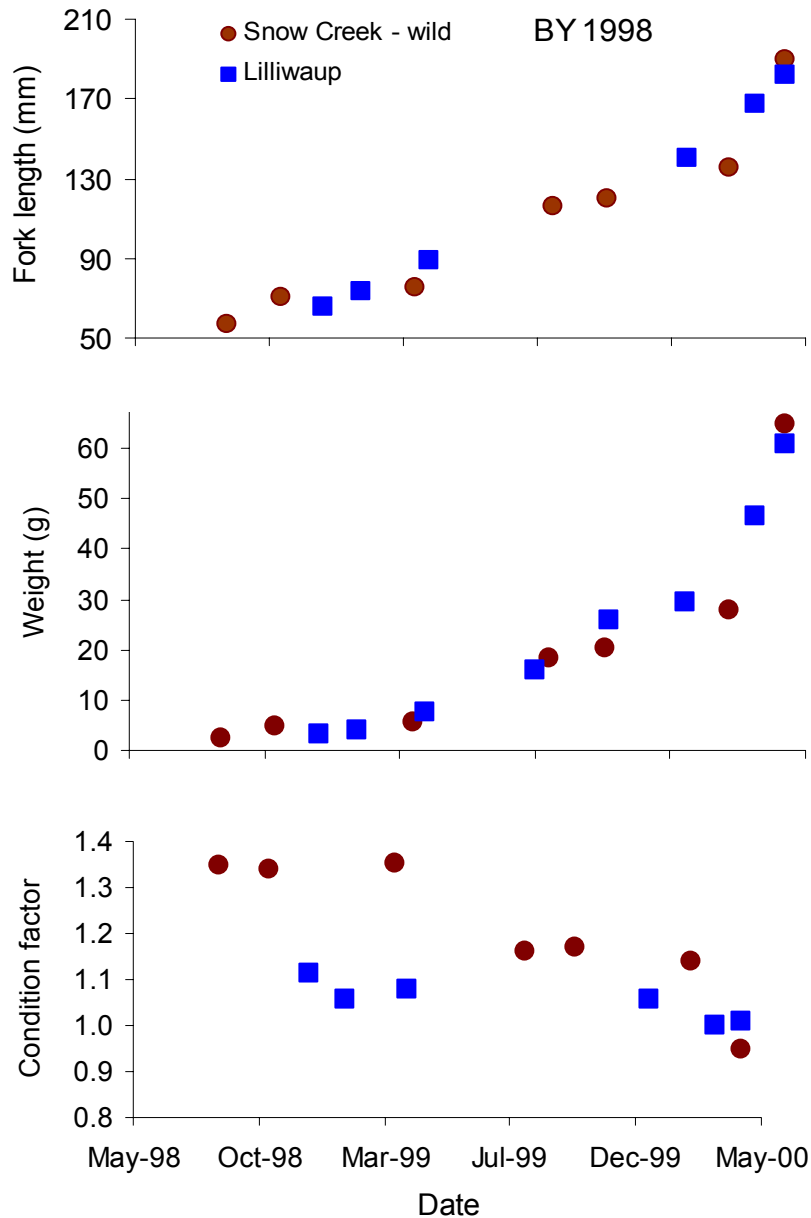
Johns Cr. Pond (50%)



2. Adult rearing (age-4 release)

Lilliwaup Hatchery tanks

Growth of age-2 smolts



Captive brood adult culture methods



Hamma Hamma Steelhead



Future



Thank You:

Robbins Family

Thom Johnson, WDFW

Eric Volk, WDFW

Hood Canal Salmon Enhancement Group

Pt. Gamble S'Klallam Tribe

Skokomish Tribe

