

Memorandum

Ref ID 90670

To: Files and Distribution List

Date: July 29, 2003

From: **Colleen Harvey Arrison**
Northern California-North Coast Region
Department of Fish and Game

Subject: 2003 Antelope Creek Spring-run Chinook Salmon Survey

On 28 July 2003 Antelope Creek was snorkel-surveyed to count holding adult spring-run Chinook salmon. **Forty-six adult salmon were observed.** A total of 14 miles of stream was surveyed including: the North Fork from the Judd Creek confluence to the South Fork confluence, the South Fork from the South Antelope Gun Club to the North Fork confluence, and the main stem from the North and South Fork confluence to Facht Place (Figure 1). The areas surveyed encompass the known holding habitat of adult spring-run Chinook salmon in Antelope Creek. Six salmon were observed in the North Fork. No salmon were observed in the South Fork. Twenty-nine salmon were observed between the confluences and Paynes Crossing and 11 salmon were counted between Paynes Crossing and Facht Place (Figure 1 and Table 1).

If time and budget permits, Antelope Creek will be surveyed in October for spawning success, redd distribution and carcass recovery for DNA tissue collection.

This is the 15th year the Department has been monitoring the spring-run Chinook salmon population in Antelope Creek. Table 1 shows the areas surveyed and the holding distribution of salmon during the previous 15-years on record. From 1989 thru 2003 counts have ranged from zero to 154 salmon. The Department has only limited historical records of spring-run salmon occurrence in Antelope Creek dating back to the 1950's. In 1953 and 1956, 127 and 253 spring-run salmon respectively were seined at the Cone Kimball Dam. (This dam was removed in the 1960's.)

This year's survey included participants from the California Department of Fish and Game (CDFG), Lassen National Forest (LNF), Sierra Pacific Industries (SPI). Thank-you to all who volunteered their time to participate in this year's survey.

Attachments

Figure 1. Antelope Creek, Tehama County. Areas surveyed and adult Spring-run Chinook counted. July 28, 2003.

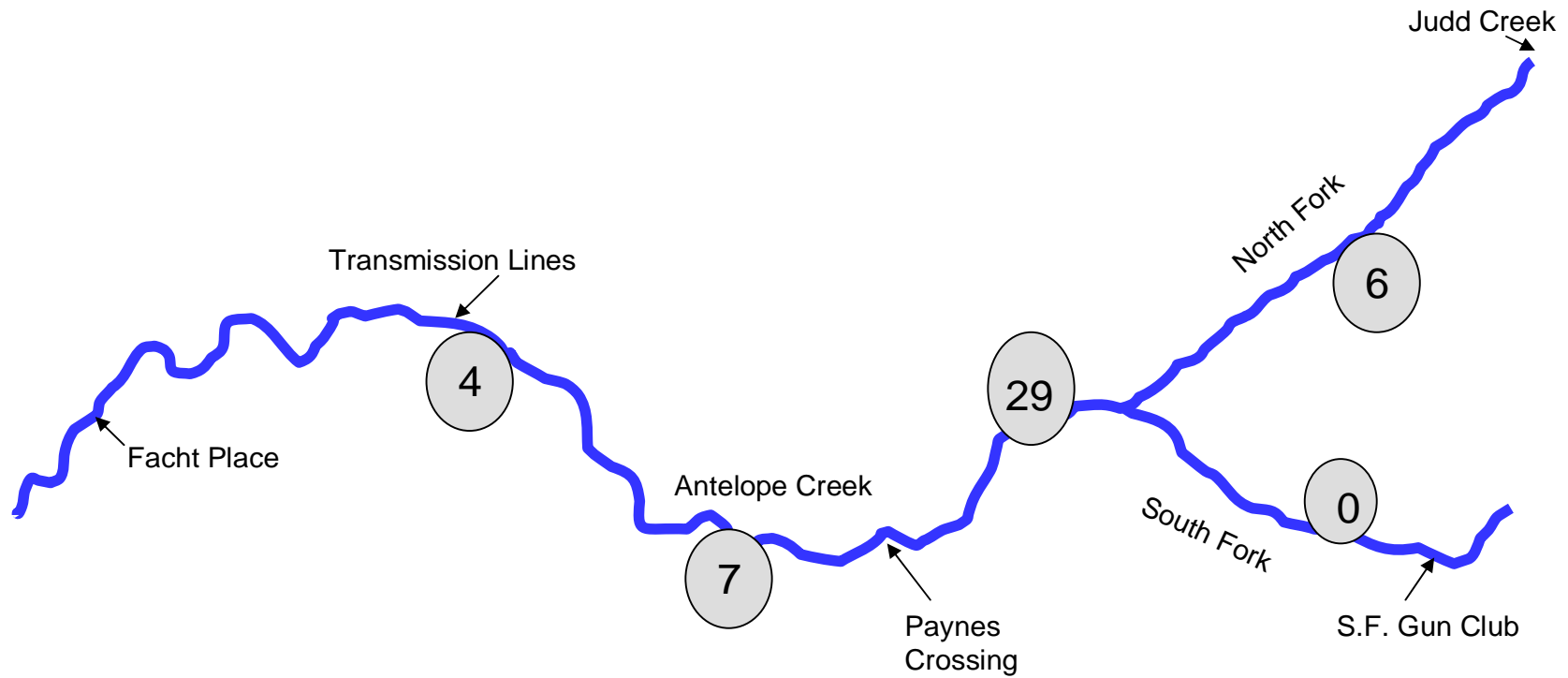


TABLE 1. Holding Distribution of Spring-run Chinook Salmon in Antelope Creek 1983-2003.

Section	1983	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
<u>North Fork</u> Judd Creek to South Fork Confluence	ns	0	ns	ns	ns	ns	ns	0	0	0	9	5	0	1	0	6
<u>South Fork</u> S.A. Gun Club to North Fork Confluence	ns	ns	ns	ns	ns	ns	ns	1	0	0	9	3	1	1	0	0
<u>Main Stem</u> North and South Confluence to Paynes Crossing	6	2	1	0	0	3	0	2	0	0	77	19	2	4	31	29
Paynes Crossing to Canyon Mouth	22	0	ns	ns	ns	0	ns	4	1	0	23	6	1	1	1	7
Canyon Mouth to Power lines	0	ns	ns	ns	ns	ns	ns	ns	ns	ns	25	5	4	1	8	4
Power lines to Facht Place	0	ns	ns	ns	ns	ns	ns	ns	ns	ns	11	2	1	0	6	0
Totals	28	2	1	0	0	3	0	7	1	0	154	40	9	8	46	46

ns = not surveyed

TABLE 2. List of Participants in 2001 Antelope Creek Survey

Date	Section	Participants
7/28/03	<u>North Fork</u> Judd Creek to North and South confluence	Bobette Jones – LNF Carl Anderson - LNF
7/28/03	<u>South Fork</u> S.A. Gun Club to North & South confluence	Ken Roby – LNF Chris Mayes - LNF
7/28/03	<u>Main Stem</u> North & South confluence to Paynes Crossing	Steve Baumgartner – CDFG Jake Alliman - LNF
7/28/03	Paynes Crossing to Canyon Mouth	Ryan Foote – LNF Caitlan Dalby – LNF Matt Staudacher - LNF
7/28/03	Canyon Mouth to Facht Place	Colleen Harvey Arrison – CDFG Julie Kelley - LNF

Distribution List

Department of Fish and Game, Redding

Randy Benthin
Steve Baumgartner
Mike Berry
Patricia Bratcher
Curt Babcock
Connie Shannon

Department of Fish and Game, Chico

Mathew Galli

Department of Fish and Game, Tehama Wildlife Area

Bruce Reno

Department of Fish and Game, Sacramento

Dennis McEwan
Alice Lowe
Jim White
Quinquin Liu
Bob Kano

Lassen National Forest

Melanie McFarland
Ken Roby
Ryan Foote

U.S. Fish and Wildlife Service

Jim Smith

Department of Water Resources

Shiela Greene

National Marine Fisheries Service

Dan Viele
Howard Brown

Sierra Pacific Industries

Julie Kelley

Los Molinos Mutual Water Company

Bill Berens

Landowners

Jim Edwards