

## DEPARTMENT OF FISH AND GAME

NORTHERN CALIFORNIA NORTH COAST REGION

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(530) 225-2300



REP 90421

October 3, 2000

Dr. Rebecca Lent  
Southwest Region  
National Marine Fisheries Service  
501 West Ocean Boulevard, Room 4200  
Long Beach, California 90802-4213

Attention Mr. James J. Morgan

Dear Dr. Lent:

Enclosed are three copies each of semiannual reports for Study 1 (Ocean Salmon Project) and Study 2 (Klamath River Project) of our Salmon and Steelhead Research, Management and Enhancement Project (AFC-16, Award Number NA76FA0296). The report covers the period January 1 through June 30, 2000.

If you have any questions regarding these reports, please contact Senior Biologist Supervisor (Marine/Fisheries) Neil T. Manji at (530) 225-2306.

Sincerely,

A handwritten signature in cursive script that reads "Neil T. Manji" followed by a small "BC" or "B" mark.

Gary B. Stacey  
Fisheries Program Manager

Enclosures

cc: See attached list.

Dr. Rebecca Lent  
October 3, 2000  
Page Two

cc: Mr. Gene Fleming, Chief  
Fisheries Programs Branch  
Department of Fish and Game  
Sacramento, California 95814

Mr. LB Boydston  
Intergovernmental Affairs Office  
Department of Fish and Game  
Sacramento, California 95814

Mr. Neil T. Manji  
Northern California-North Coast Region  
Department of Fish and Game  
Redding, California 96001

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SEMIANNUAL PERFORMANCE REPORT

STATE: California

AWARD NUMBER: NA76FA0296

PROJECT TYPE: Anadromous Fish-Research

PROJECT TITLE: Salmon and Steelhead Research, Management and Enhancement Project

PERIOD COVERED: January 1-June 30, 2000

STUDY 1. Ocean Salmon Project

JOB 1. Commercial Ocean Salmon Fishery Monitoring and Evaluation

On May 1, 2000, the commercial ocean salmon fishery opened south of Point San Pedro. Commercial trollers were allowed to fish for all salmon except coho. The minimum size limit was 26 inch total length and single point, single shank barbless hooks were required. In addition, circle hooks were required if fishing with bait and angling by any other means than trolling. On May 29, the fishery opening was expanded north to Point Reyes. During May, commercial chinook salmon landings were on a record pace but slowed during June. The highest California commercial catch on record occurred in 1988 when over 1.3 million chinook were landed with an average catch per unit of effort (CPUE) of 20.8 fish per day fished. Through June 2000, an estimated 443,800 chinook (4.4 million pounds) had been landed with fishermen averaging 42.7 fish per day fished. These early season landings also exceed the 264,500 fish landed during the entire 1999 commercial season. Most salmon weighed between 8 and 10 pounds.

Estimated Commercial Landings January-June 2000

Major Port Area	Number of Salmon Landed	Pounds of Dressed Salmon Landed	Average Weight
North of Horse Mountain Klamath Management Zone (Crescent City-Eureka)	closed	closed	closed
Horse Mtn.-Point Arena (Shelter Cove-Fort Bragg)	closed	closed	closed
San Francisco (Bodega Bay-Princeton)	168,970	1,597,240	9.5 pounds
Monterey (Santa Cruz-Mexican Border)	264,840	2,792,730	10.5 pounds

## JOB 2. Recreational Ocean Salmon Fishery Evaluation

During the January-June period, approximately 105,330 chinook were landed in California by an estimated 103,250 sport anglers (CPUE: 0.9 fish/angler) fishing on private skiffs and commercial passenger fishing vessels (CPFVs). Anglers fishing south of Horse Mountain were allowed two salmon per day of any species except coho. Single point, single shank barbless hooks had to be used north of Point Conception. In addition, any anglers fishing with bait and angling by any other means than trolling were required to use circle hooks. The minimum size limit opened at 24 inch total length south of Horse Mountain and dropped to 20 inch total length beginning June 1.

On February 12, the recreational fishery opened in the Fort Bragg port area between Point Arena and Horse Mountain. An estimated 4,470 salmon were landed by 6,360 anglers fishing from private skiffs (CPUE: 0.7 fish/angler). Another 3,440 salmon were landed by 3,290 anglers fishing from CPFVs (CPUE: 1.1 fish/angler). Most anglers concentrated their efforts directly outside of the port and most salmon weighed between 6 and 10 pounds.

On, April 1 the fishery opened south of Pigeon Point to the United States-Mexico border. In the Monterey port area (Santa Cruz, Moss Landing, Monterey, Morro Bay and Avila), an estimated 38,000 chinook were landed by 41,100 anglers fishing in private skiffs (CPUE: 0.9 fish/angler). An additional 26,220 chinook were landed by 20,240 anglers fishing on CPFVs (CPUE: 1.3 fish/angler). Most salmon weighed 8-15 pounds.

On April 15, the recreational fishery opened between Pigeon Point and Point Arena. In the San Francisco port area (Bodega Bay, Sausalito, Berkeley/Emeryville, San Francisco and Princeton), an estimated 8,980 chinook were landed by 11,800 anglers fishing in private skiffs (CPUE: 0.8 salmon/angler). An additional 21,560 chinook were landed by 19,510 anglers fishing on CPFVs (CPUE: 1.1 salmon/angler). In the Bodega Bay area, fishing effort was low in April due to rough weather conditions. Most salmon averaged 10 pounds.

On May 27, the fishery opened north of Horse Mountain in the Klamath management zone (Eureka and Crescent City port areas). Anglers were allowed 1 salmon per day (any species except coho) and no more than 4 fish in 7 consecutive days. The minimum size limit was 20 inch total length. An estimated 2,650 chinook were landed by 5,960 anglers (CPUE: 0.4 salmon/angler) fishing in the zone.

### **Recreational Landings January-June 2000**

Major Port Area	Private Skiffs		CPFVs		Total Period Catch
	#Salmon	#Anglers	#Salmon	#Anglers	
Crescent City	530	1,910	0	0	530
Eureka	1,990	3,810	130	240	2,120
Fort Bragg	4,470	6,360	3,440	3,290	7,910
San Francisco	8,980	1,800	21,560	19,510	30,540
Monterey	38,000	41,100	26,220	20,240	64,220
<b>Total</b>	<b>53,970</b>	<b>64,980</b>	<b>51,350</b>	<b>43,280</b>	<b>105,320</b>

Estimated funds expended during the semiannual period:

	Personnel Services	Operating Expenses	Total
State	\$35,921	\$ 9,866	\$45,787
Federal	<u>35,922</u>	<u>9,866</u>	<u>45,788</u>
<b>TOTAL</b>	<b>\$71,843</b>	<b>\$19,732</b>	<b>\$91,575</b>

Prepared by: \_\_\_\_\_  
Melodie Palmer-Zwahlen  
Associate Marine Biologist  
Ocean Salmon Project

Date: \_\_\_\_\_

## SEMIANNUAL PERFORMANCE REPORT

STATE: California

AWARD NUMBER: NA76FAO296

PROJECT TYPE: Anadromous Fish Research

PROJECT TITLE: Salmon and Steelhead Research, Management and Enhancement Project

PERIOD COVERED: January 1-June 30, 2000

STUDY 2. Klamath River Project

JOB 1. Klamath River Salmon and Steelhead Study

No field activities pertaining to this job were performed this reporting period. Work was limited to editing and analyzing computer files which contain data collected last fall from the lower Klamath River creel census and from spawner surveys and weir operations conducted above the Trinity River confluence.

Summary information of our 1999 Scott and Shasta River salmon spawner surveys was prepared and sent to approximately 85 landowners in these subbasins. These landowners had requested this information as a condition of granting permission to project personnel to survey the portion of river that passes through their property.

Project personnel compiled available natural and hatchery escapement estimates for the Klamath-Trinity basin as well as in-river sport and Native American net harvesting information for presentation to the Klamath Fisheries and Pacific Fisheries Management councils. This information was used to determine fall chinook salmon harvest levels for the 2000 season. Project personnel also assisted in the formation of the in-river sport harvesting regulations for the 2000 season.

Coordination meetings were held with the Yurok and Karuk tribes, the US Forest Service and AmeriCorps volunteers to begin planning for the 2000 season.

JOB 2. Iron Gate Hatchery Juvenile Salmon Tagging

During this reporting period, a total of 203,676 fall-run chinook salmon, brood year (BY) 1999, was adipose (Ad) fin-clipped and coded-wire tagged (CWT) at Iron Gate Hatchery (IGH). These fish were released into the Klamath River immediately below the hatchery as fingerlings between June 9 and 10, 2000, along with 4,825,300 unmarked fingerling chinook (Table 1).

Number BY 1999 fall chinook salmon were tagged under this contract for the yearling program.

**Table 1. Numbers of Fall-Run Chinook Salmon CWT at IGH in 2000**

Bi-Code	Total	Tags Shed	Mortality	Correctly	
	Tagged	Prior to Release	Prior to Release	Marked	Unmarked
06-01-02-03-09	57,749	6,062	46	51,641	1,368,141
06-01-02-03-10	59,230	6,218	48	52,964	1,403,200
06-01-02-03-11	59,497	6,246	48	53,203	1,409,552
06-01-02-03-12	27,200	2,855	22	24,323	644,407
<b>Totals</b>	<b>203,676</b>	<b>21,381</b>	<b>164</b>	<b>182,131</b>	<b>4,825,300</b>

JOB 3. Recovery of Coded-Wire Tags from Salmon Returning to Iron Gate Hatchery

Totals of 3,439 grilse and 10,681 adult chinook salmon and 18 grilse and 151 adult coho salmon were handled at IGH during the 1999 season. Project personnel collected heads of Ad fin-clipped fish for coded-wire tag recovery and decoding. Totals of 674 adult and 154 grilse chinook salmon and zero adult coho heads were collected. Twenty-one tag codes representing 8 different release groups were identified by the tags recovered (Table 2).

The project is on schedule and there have been no deviations from the work as planned.

Estimated funds expended July 1 1999-June 30, 2000:

Federal	\$204,035
State	<u>204,035</u>
<b>TOTAL</b>	<b>\$408,070</b>

Prepared by: \_\_\_\_\_  
Mark S. Pisano

Date: July 31, 2000

Table 2. Release Information for Coded-Wire Tags Collected from Ad Fin-Clipped Salmon Encountered at IGH, 1999 Season.

Bi-Code	Species	Release Site	Brood Year	Release Type <sup>1</sup>	Number Observed
601020113	Chinook	Iron Gate Hatchery	94	Ff	1
65701	Chinook	Iron Gate Hatchery	94	Fy	2
66321	Chinook	Iron Gate Hatchery	94	Fy	1
66329	Chinook	Iron Gate Hatchery	94	Fy	2
601020202	Chinook	Iron Gate Hatchery	95	Ff	3
601020203	Chinook	Iron Gate Hatchery	95	Ff	4
601020204	Chinook	Iron Gate Hatchery	95	Ff	3
0601020205	Chinook	Iron Gate Hatchery	95	Ff	2
0601020206	Chinook	Iron Gate Hatchery	95	Ff	133
0601020207	Chinook	Iron Gate Hatchery	95	Fy	155
0601020208	Chinook	Iron Gate Hatchery	96	Ff	21
0601020209	Chinook	Iron Gate Hatchery	96	Ff	24
0601020210	Chinook	Iron Gate Hatchery	96	Ff	13
0601020211	Chinook	Iron Gate Hatchery	96	Ff	20
065230	Chinook	Trinity River Hatchery	96	Ff	1
63830	Chinook	Iron Gate Hatchery	96	Fy	125
063831	Chinook	Iron Gate Hatchery	96	Fy	125
0601020212	Chinook	Iron Gate Hatchery	97	Ff	60
0601020213	Chinook	Iron Gate Hatchery	97	Ff	45
0601020214	Chinook	Iron Gate Hatchery	97	Ff	26
0601020215	Chinook	Iron Gate Hatchery	97	Ff	15
10 00 00		No tag found			38
20 00 00		Tag lost or unreadable			9
<b>Total</b>					<b>828</b>

1. Ff=fall-run chinook fingerling; Fy=fall-run chinook yearling, fingerling; Y=coho yearling