

Karuk Tribe of California



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Annual Report FOR

COOPERATIVE AGREEMENT: #14-16-0001-90545
TITLE: Karuk Tribal Harvest Monitoring Program.
REPORTING PERIOD: September 15 thru November 15, 1990

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Karuk Tribal Harvest Monitoring Program

Annual Report 1990

FORWARD

There are currently four groups in the Klamath Basin that actively participate in the harvest of Klamath Basin stocks. These include the Yuork, Karuk, and Hoopa Tribes, as well as the in-river Sports fishing community.

Historicly, the Karuk Dip-Net Fishery has been the most "mysterious" of all the fisheries in the basin. This is due to several factors, one of which is the fact that the Karuk Fishery is the only Tribal and/or Indian Fishery conducted off reservation in the entire Klamath River Basin or in the State of California for that matter. A State recognized Aboriginal Fishing Right is a status that has caused much confusion in the past. Due to its remote location, the Karuk Fishery it has eluded such things as Television and Newspaper coverage, as well as the eyes of the general public.

Due to this mysterious status, and therefore the lack of information concerning harvest impacts on natural stocks, the Klamath Fishery Management Council, in February of 1990, requested that this fishery be monitored and a data base be established. Because of time constraints, faced at that time, the Karuk Tribe through its Fisheries Department, proposed a limited monitoring effort for the fall of 1990, with the implementation of full-scale monitoring commencing in the spring of 1991. The Klamath River Basin Fisheries Task Force responded to the request of the Klamath Fishery Management Council, by recommending funding for the monitoring of the Karuk Subsistence Fishery in the fall of 1990, as well as the spring, summer, and fall of 1991.

NET HARVEST MONITORING

INTRODUCTION

The primary objective of the Karuk Tribal Harvest Monitoring Program is to obtain biological and habitat information needed by the Klamath Fishery Management Council for harvest management purposes. Specifically, the objective of the project is to quantify fish species and number of each species, which are harvested for subsistence use by the Karuk Tribe.

LOCATION

DESCRIPTION OF STUDY AREA

The study area for this project is located in the middle Klamath River near the town of Somes Bar. The actual Project Reach is approximately three quarters of a mile in length. The upper portion of this reach extends to the very crest of Ishi-Pishi Falls, with the bottom portion lying directly upstream from the confluence of the Salmon and Klamath Rivers. (see figures 1&2)

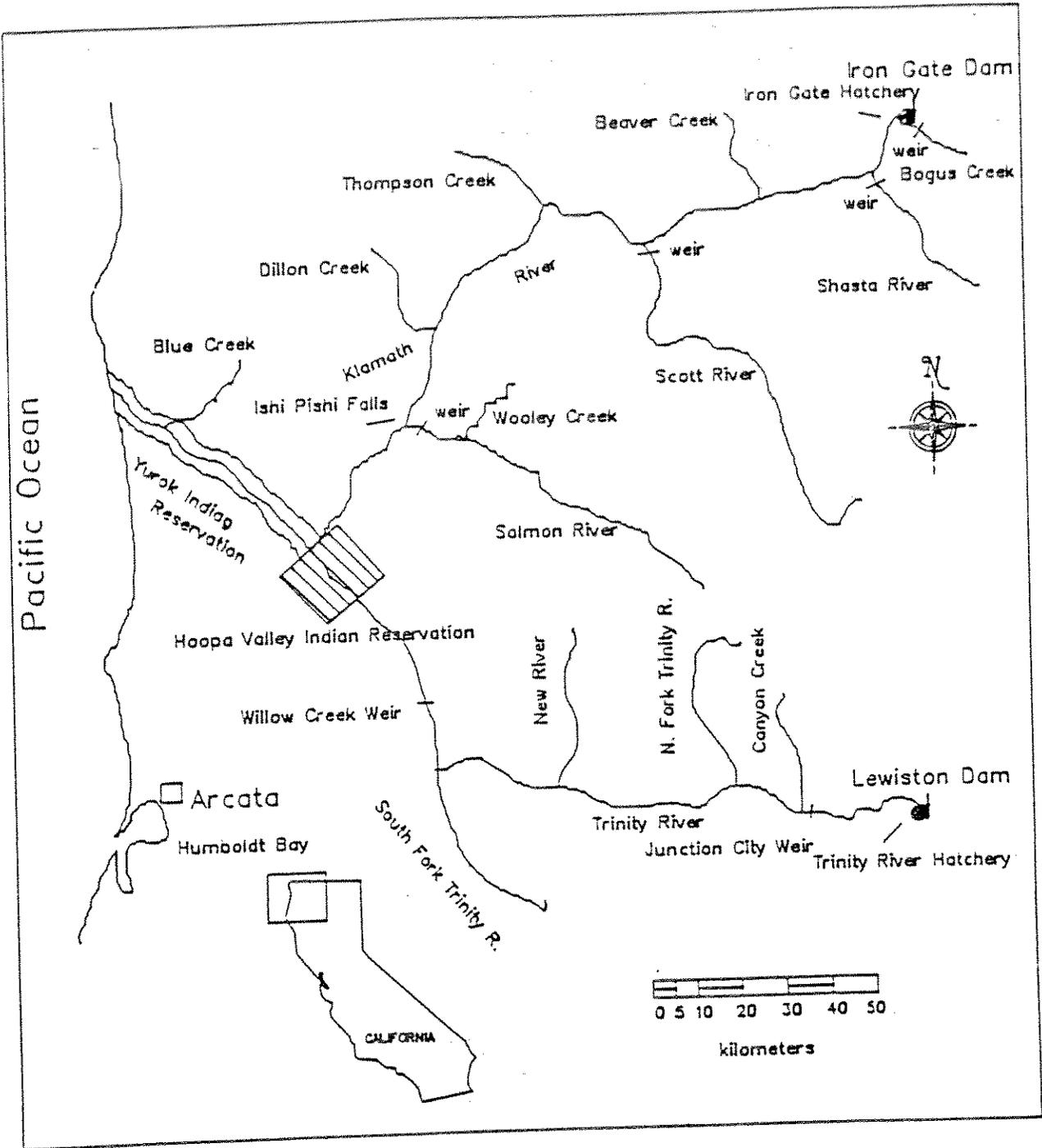
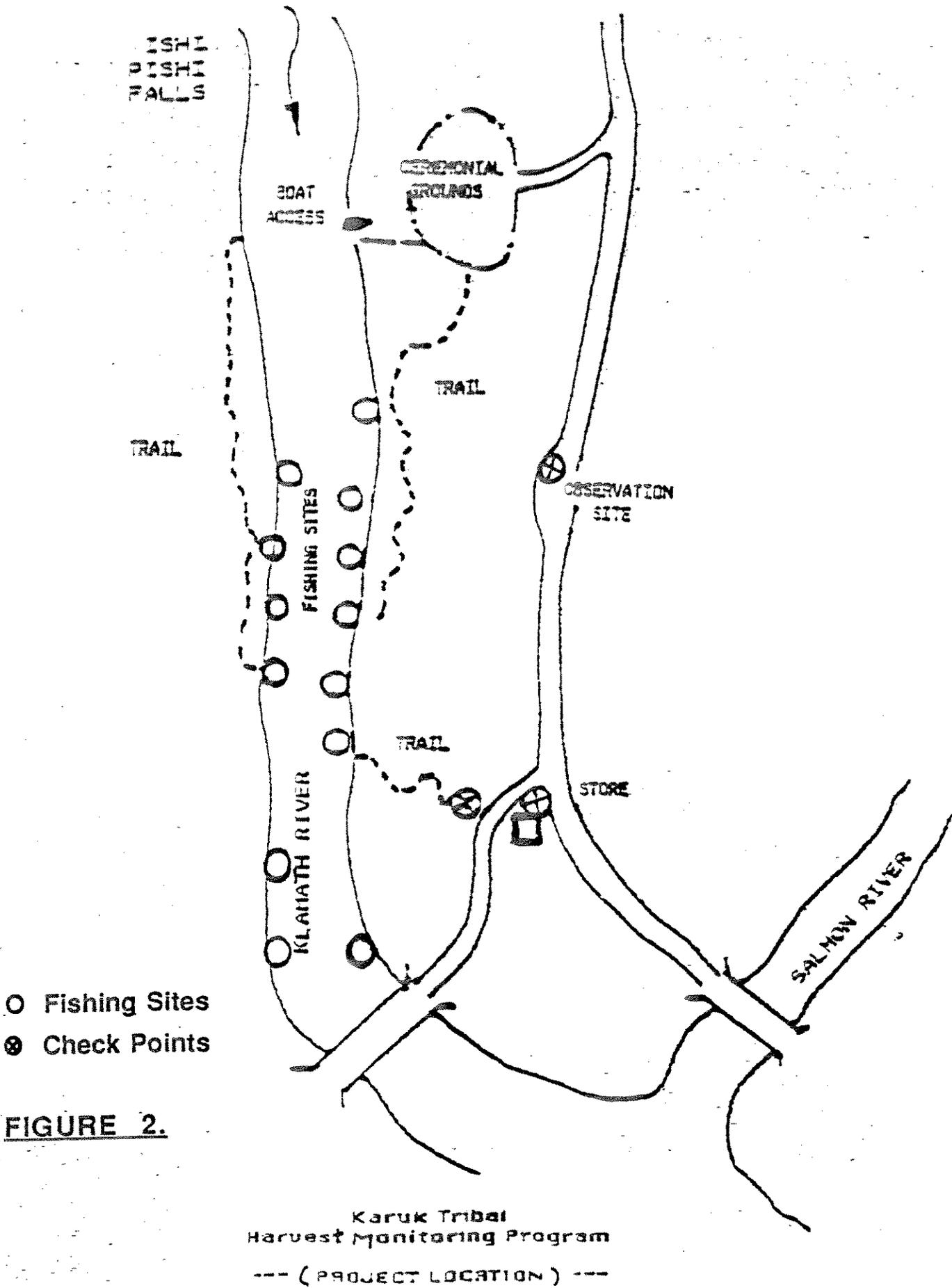


Figure 1. Map of Klamath-Trinity Basin.



METHODS

HARVEST METHODS

Traditional methods of harvest were employed with Dip-Netting being the preferred method. Other methods of harvest were Platform/Trigger Net Fishing, however due to an unusually low abundance of fish, as well as low flows, the latter proved to be so ineffective that it was all but abandoned in the Fall Fishery.

SAMPLING METHODS

A field Monitoring Crew was employed to carry out the specific objectives of the Harvest Monitoring Program. The Monitoring Crew consisted of three (3) Indian Technicians as well as personnel from the Karuk Tribal Fisheries Department, who provided direct supervision and daily oversight for the Harvest Monitors. The Fall Fishery was monitored seven days per week, sunrise to sunset, from September 15 through November 15, 1990.

Net Harvest information was collected primarily through direct sampling of catch from Individual Indian Fishers. Personal interviews were also conducted with Indian Fisherman who were not contacted on the river. Interviews were conducted at various fishing camps and personal residences, to obtain information on the number of fish caught and species. The information and/or raw data obtained, through the above described methodologies, was used as the basis to generate an overall Karuk Subsistence Harvest Estimate for the 1990 Fall Fishery at Ishi-Pishi Falls.

NET HARVEST MONITORING

METHODS

(SAMPLING METHODS) cont.

Random samples, consisting of a thorough examination for fin clips, hook scars, tags, gill-net marks, and other distinguishing characteristics, were conducted on a daily basis, each time the Monitoring Crew came in contact with a successful fisherman. Scale Samples, fork length and weight measurements were obtained on a random basis as opportunistically as circumstances allowed.



The utilization of two different methodologies, to obtain information, necessitated the division of raw data into two groups for primary analysis. These two data groups are classified as; Confirmed (C), based on varified/confirmed accounts of fish harvested and Un-confirmed (UC), based on reliable, but unverified, accounts of fish harvested.

NET HARVEST MONITORING

CONCLUSIONS

RESULTS AND FINDINGS

FINAL HARVEST FIGURES AND ESTIMATES

The final figures for Data Classification *(C) Confirmed harvest occurring, show a total harvest of 139 for all species. See Table 1.

The final figures for Data Classification *(UC) Un-confirmed/Reliable, show a total harvest of 27 for all species. See Table 2.

The total combined figures from Data Classifications *(C) & *(UC) show a total harvest of 166 for all species. See Table 3.

Due to the fact that The Karuk Subsistence Fishery occurs in a relatively confined area (approx 3/4 mile in length) and in light of the intensity of Monitoring efforts which were conducted, we conclude that the harvest figures shown on Tables 1 & 2 are quite firm. Considering the few instances where un-counted harvest may have occurred and taking into account the fish which were harvested for Ceremonial Purposes, we finally conclude that the final harvest estimate for the Fall 1990, Karuk Subsistence Fishery is 200 for all species.

RANDOM SCALE SAMPLES

Randon Scale Samples were collected from seventeen Chinook, one Coho, and one Steelhead. All nineteen samples were analyzed to determine age class. Final results showed A total of 9 three year olds, 7 four year olds, 2 five year olds, and 1 one year old comprised the sample. See Table 4.

NET HARVEST MONITORING

CONCLUSIONS

RESULTS AND FINDINGS (cont.)

FINAL C.W.T RECOVERIES AND MARKS OBSERVED.

The final figure for Coded Wire Tag recoveries was 0. Of the 139 *(C) figure (see table 1) the majority were inspected for Marks, Tags, ect. and none were reported. Likewise, none were reported in the *(UC) category.

KARUK TRIBAL HARVEST MONITORING PROGRAM

APPENDIX

A

**WEEKLY DATA SHEETS
AND
SUMMARY**

**(PERIOD #1)
SEPT. 15 THRU SEPT 30 1990**

KARUK TRIBE OF CALIFORNIA FISHERIES DEPT

ISHI PISHI FALLS (KU-TE-MEEN)
LOCATION

1990
YEAR
SEPTEMBER
MONTH

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	MK	M	F						
SAT	15	7:30AM TO 7:30PM	0	0	0	0	0	0	0	0	0	4			N/A	0	NOTE: During this entire period, the Pik-yow-wish Ceremony was occurring, there fore please note; the fish taken for this Ceremony are not reflected on this sheet.
SUN	16	"	0	0	0	0	0	0	0	0	0	5			"	0	
MON	17	"	1	1	0	0	0	0	0	0	0	3			"	2	
TUES	18	"	3	2	0	0	0	0	0	0	0	3			"	5	
WED	19	"	1	1	0	0	0	0	0	0	0	3			"	2	KARUK (New Year)
THUR	20	"	3	3	0	0	0	0	0	2	0	5			"	8	Prior to 9/20 Steelhead were caught, but no were kept.-(in accordance w Tribal Law)
FRI	21	"	2	0	0	0	0	0	0	0	1	4			"	3	
TOTAL FOR WEEK			10	7	0	0	0	0	2	1	27	27				20	
PREVIOUS TOTAL																	
SEASON TOTAL TO DATE			10	7	0	0	0	0	2	1	27	27				20	

KARUK TRIBE OF CALIFORNIA FISHERIES DEPT

ISHI PISHI FALLS (KU-TE-MEEN)

LOCATION

1990

YEAR

SEPTEMBER

MONTH

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	MK	M	F						
SAT	22	7:30AM TO 7:30PM	0	0	0	0	0	0	0	0	0	2			N/A	4	
SUN	23	"	4	1	1	0	0	0	0	0	0	1			"	10	
MON	24	"	0	0	0	0	0	0	2	0	0	1			"	2	
TUES	25	"	3	3	0	0	0	0	0	0	0	2			"	6	
WED	26	"	6	5	1	0	0	0	0	0	0	2			"	12	
THUR	27	"	0	1	0	0	0	0	0	0	0	2			"	1	
FRI	28	"	0	1	0	0	0	0	0	0	0	2			"	1	
TOTAL FOR WEEK			13	19	2	0	0	0	2	0	0	12				36	
PREVIOUS TOTAL			10	7	0	0	0	0	2	1	0	27				20	
SEASON TOTAL TO DATE			23	26	2	0	0	0	4	1	0	39				56	

KARUK TRIBE OF CALIFORNIA FISHERIES DEPT

ISHI PISHI FALLS (KU-TE-MEEN)
LOCATION

1990
YEAR
SEPTEMBER
MONTH

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	M	F	J	M	F	M						
SAT	29	7:30AM TO 7:30PM	0	0	0	0	0	0	0	0	0	1			N/A	0	"NO CATCH" REPORTED.
SUN	30	"	5	3	0	0	0	0	0	0	0	2			"	8	
			END OF SEPTEMBER														
TOTAL FOR WEEK			5	3	0	0	0	0	0	0	0	3				8	
PREVIOUS TOTAL			23	26	2	0	0	0	4	1	39					56	
SEASON TOTAL TO DATE			28	29	2	0	0	0	4	1	42					64	

Summary
OF (C) HARVEST DATA
For
 (Period #1)
 September 15 through September 30,1990

	<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>
	28-MALE	0-MALE	4-MALE
	29-FEMALE	0-FEMALE	1-FEMALE
	2-JACKS	0-JACKS	0-IMMATURE
*(C)			
<u>TOTALS</u>	59	0	5

Total for this period: **64**

Total for last period: **N/A**

Season total to date: **64**

***(C) Figures based on confirmed /varified accounts of fish harvested.**

Karuk Tribal Harvest Monitoring Program

Summary OF (UC) HARVEST DATA For (Period #1)

September 15 through September 30, 1990

<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>	
4-MALE 1-FEMALE 0-JACKS	0-MALE 0-FEMALE 0-JACKS	1-MALE 2-FEMALE 0-IMMATURE	
<hr/>			
*(UC) <u>TOTALS</u>	5	0	3

Total for this period: **8**

Total for last period: **N/A**

Season total to date: **8**

Interviews conducted this period: **2**

Interviews conducted last period: **N/A**

Interviews conducted to date: **2**

*(UC) Figures based on reliable but un-confirmed accounts of fish harvested.

KARUK TRIBAL HARVEST MONITORING PROGRAM

APPENDIX

B

**WEEKLY DATA SHEETS
AND
SUMMARY**

(PERIOD #2)

OCT. 1 THRU OCT. 31 1990

1990

YEAR

October

MONTH

Ishi Pishi Falls (KO-TE-MEIN)

LOCATION

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD		FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	MK	M						
MON	1	7:30AM TO 7:30PM	3	4							1	65°	58°	N/A	7	
TUE	2	"	0	0							1	66° 64°	76° 59°	"	0	"NO CATCH" REPORTED
WED	3	"	3	3							2	65° 62°	71° 50°	"	6	"OTTER" REPORTS"
THUR	4	"	0	1							2	64° 60°	80° 52°	"	1	
FRI	5	"	0	0							1	64° 62°	78° 56°	"	0	CLOUDY & OVERCAST NO CATCH REP
SAT	6	"	1	3							2	64° 62°	65° 55°	"	4	
SUN	7	"	1	1							2	64° 61°	65° 56°	"	2	
TOTAL FOR WEEK			8	12	0				0	0	11				20	
PREVIOUS TOTAL			28	29	2				4	1	42				64	
SEASON TOTAL TO DATE			36	41	2				4	1	53				84	

Ishi Pishi Falls (KO-TE-MEIN)

LOCATION

1990

YEAR

October

MONTH

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	MK	M	F						
MON	8	7:30AM TO 7:30PM	0	1	0							1	60°	53°	N/A	1	AM EFFORT ONLY
TUE	9	"	0	0	0				0	1		1	64°	70°	"	1	AM EFFORT ONLY
WED	10	"	0	0	0						2	2	60°	55°	"	0	NO CATCH REPORTED
THUR	11	"	0	0	0				1	0		2	65°	61°	"	1	
FRI	12	"	9	2	1						2	2	61°	50°	"	12	
SAT	13	"	1	0	0						1	1	66°	65°	"	1	
SUN	14	"	0	0	0						1	1	61°	54°	"	0	NO CATCH REPORTED
TOTAL FOR WEEK			10	3	1				1	1		10				16	
PREVIOUS TOTAL			36	41	2				4	1		53				84	
SEASON TOTAL TO DATE			46	44	3				5	2		63				100	

KARUK TRIBE OF C, ORNIA FISHERIES DEPT

1990

YEAR

October

MONTH

Ishi Pishi Falls (KU-TE-MEEN)

LOCATION

DAY	DATE	Hours Mont.	CHINOOK						COHO			STEELHEAD		FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	J	MK	M	F	MK						
MON	15	7:30 AM TO 7:30PM	1	4	0	0	0	0	0	0	0	1	0	1	58	50	N/A	6	FISH BEING CAUGHT ARE IN GOOD CONDITIONI
TUE	16	"	0	3	0	0	0	0	0	0	0	0	0	59	70	"	3	"NO CATCH" REPORTED.	
WED	17	"	0	0	0	0	0	0	0	0	0	0	0	58	48	"	0	HARD RAIN WATER MURKY.	
THUR	18	"	0	0	0	0	0	0	0	0	0	0	0	60	70	"	0	FIRST "COHO" CAUGHT THIS SEASON.	
FRI	19	"	0	0	0	0	0	0	0	0	0	0	0	55	42	"	2	RAINING HARD WATER LEVEL UP +1 FT.	
SAT	20	"	1	0	2	0	0	0	0	0	0	0	2	58	69	"	5	WATER LEVEL RECEIDING SOME	
SUN	21	"	0	0	0	0	0	0	0	0	0	0	0	53	38	"	0		
TOTAL FOR WEEK			2	7	2	0	0	0	0	0	0	1	2	14	55	68	"	16	
PREVIOUS TOTAL			46	44	3	0	0	0	0	0	5	2	63				"	100	
SEASON TOTAL TO DATE			48	51	5	2	0	0	0	0	6	4	77				"	116	

Submitted By: Karuk Fisheries Dept.

KARUK TRIBE OF CA' RNIA FISHERIES DEPT

1990

YEAR

October

MONTH

Ishi Pishi Falls (KU-TE-MEEN)

LOCATION

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD		FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	M	F	M	F	MK						
MON	22	7:30 AM TO 7:30PM	0	0	0	0	0	0	0	0	54	52	N/A	0	NO "EFFORT" OR "CATCH" REPORTED!	
TUE	23	"	0	0	0	0	0	0	0	2	56	68	"	0	2 FISHERMEN OBSERVED... "NO CATCH" REPOR	
WED	24	"	1	3	0	1	1	0	1	2	57	47	"	9	COHO'S GOOD SHAPE!!! 1W/NET MARK	
THUR	25	"	2	0	0	0	0	0	0	1	55	49	"	2	CLOUDY... WATER LEVEL DOWN 6 in.	
FRI	26	"	0	0	0	0	0	0	0	2	58	69	"	0	OTTER PROBLEMS REPORTED	
SAT	27	"	1	2	0	0	4	0	0	2	59	63	"	7	2 LARGE (F) STEELHEAD RELEASED!	
SUN	28	"	0	0	0	0	0	0	0	0	56	51	"	0	NO "EFFORT" OR "CATCH" REPORTED!	
TOTAL FOR WEEK			4	5	0	1	5	0	1	2			"	18		
PREVIOUS TOTAL			48	51	5	2	0	0	6	4			"	116		
SEASON TOTAL TO DATE			52	56	5	3	5	0	7	6			"	134		

Submitted By: Karuk Fisheries Dept.

Karuk Tribal Harvest Monitoring Program

Summary OF (C) HARVEST DATA

For

(Period #2)

October 1 through October 31, 1990

<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>	
25-MALE 29-FEMALE 3-JACKS	3-MALE 6-FEMALE 0-JACKS	3-MALE 5-FEMALE 0-IMMATURE	
<hr/>			
*(C) TOTALS	57	9	8

Total for this period: **74**

Total for last period: **64**

Season total to date: **138**

***(C) Figures based on confirmed/ varified accounts of fish harvested.**

Karuk Tribal Harvest Monitoring Program

Summary OF (UC) HARVEST DATA

For

(Period #2)

October 1 through October 31, 1990

<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>	
7-MALE 1-FEMALE 1-JACKS	0-MALE 5-FEMALE 0-JACKS	1-MALE 0-FEMALE 0-IMMATURE	
<hr/>			
*(UC) TOTALS	9	5	1

Total for this period: **15**

Total for last period: **8**

Season total to date: **23**

Interviews conducted this period: **3**

Interviews conducted last period: **2**

Interviews conducted to date: **5**

***(UC) Figures based on reliable but un-confirmed accounts of fish harvested.**

KARUK TRIBAL HARVEST MONITORING PROGRAM

APPENDIX

C

**WEEKLY DATA SHEETS
AND
SUMMARY**

(PERIOD #3)

NOV. 1 THRU NOV. 15, 1990

KARUK TRIBE OF CALIFORNIA FISHERIES DEPT

ISHI PISHI FALLS (KU-TE-MEEN)

LOCATION

1990

YEAR

NOVEMBER

MONTH

DAY	DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
			M	F	J	MK	M	F	MK	M	F						
THUR	1	6:00AM TO 5:30PM	0	0	0	0	0	0	0	0	0	1	52	42	N/A	0	"RAIN"
FRI	2	"	0	0	0	0	0	0	0	0	0	0	54	52		0	NO "EFFORT" OR "CATCH" REPORTED
SAT	3	"	0	0	0	0	0	0	0	0	0	0	49	34		0	
SUN	4	"	0	0	0	0	0	0	0	0	0	0	54	52		0	
MON	5	"	0	0	0	0	0	0	0	0	0	0	50	56		0	
TUE	6	"	0	0	0	0	0	0	0	0	0	0	57	62		0	
WED	7	"	0	0	0	0	0	0	0	0	0	0	48	48		0	
TOTAL FOR WEEK			0	0	0	0	0	0	0	0	0	1	46	60		0	
PREVIOUS TOTAL SEASON TOTAL TO DATE			53	58	5	3	6	0	7	6	86		42	45		138	
			53	58	5	3	6	0	7	6	87		46	36		138	
													48	43			
													50	60			

KARUK TRIBE OF CAI NIA FISHERIES DEPT

ISHI PISHI FALLS (KU-TE-MEEN)

LOCATION

1990

YEAR

NOVEMBER

MONTH

DAY DATE	Hours Mont.	CHINOOK			COHO			STEELHEAD			FISH EFFT	WATER TEMP	AMB TEMP	WATER DEPTH	TOT SPEC	COMMENTS
		M	F	J	M	F	M	F	M	F						
THUR 8	6:00AM TIL 5:30PM	0	0	0	0	0	0	0	0	0	0	48	49	N/A	0	"
FRI 9	"	0	0	1	0	0	0	0	0	0	1	51	60	"	1	CHINOOK 11 in CHEE-PICH" KARUK WORD.
SAT 10	"	0	0	0	0	0	0	0	0	0	0	50	46	"	0	FOR RESIDENT CHINOOK III
SUN 11	"	0	0	0	0	0	0	0	0	0	0	50	54	"	0	NO "EFFORT" OR "CATCH" REPORTED.
MON 12	"	0	0	0	0	0	0	0	0	0	0	48	59	"	0	"
TUE 13	"	0	0	0	0	0	0	0	0	0	0	52	60	"	0	"RAINING" HARD...
WED 14	"	0	0	0	0	0	0	0	0	0	0	N/A	N/A	"	0	WATER LEVEL UP +1.5 FT. UNFISHABLE
TOTAL FOR WEEK		0	0	1	0	0	0	0	0	0	1				1	
PREVIOUS TOTAL		53	58	5	3	6	0	7	6	87					138	
SEASON TOTAL TO DATE		53	58	6	3	6	0	7	6	88					139	

Karuk Tribal Harvest Monitoring Program

Summary OF (UC) HARVEST DATA

For
(Period #3)

November 1 through November 15, 1990

<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>
0-MALE	4-MALE	0-MALE
0-FEMALE	0-FEMALE	0-FEMALE
0-JACKS	0-JACKS	0-IMMATURE

*(UC)			
<u>TOTALS</u>	0	4	0

Total for this period: 4

Total for last period: 15

Season total to date: 27

Interviews conducted this period: 1

Interviews conducted last period: 3

Interviews conducted to date: 6

*(UC) Figures based on reliable but un-confirmed accounts
of fish harvested.

Karuk Tribal Harvest Monitoring Program

Summary OF (UC) HARVEST DATA

For

(Period #3)

November 1 through November 15, 1990

<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>
0-MALE	4-MALE	0-MALE
0-FEMALE	0-FEMALE	0-FEMALE
0-JACKS	0-JACKS	0-IMMATURE

*(UC)
TOTALS 0 4 0

Total for this period: 4

Total for last period: 15

Season total to date: 27

Interviews conducted this period: 1

Interviews conducted last period: 3

Interviews conducted to date: 6

*(UC) Figures based on reliable but un-confirmed accounts
of fish harvested.

KARUK TRIBAL HARVEST MONITORING PROGRAM

TABLES

1 THRU 3

**FINAL SUMMARY OF
HARVEST FIGURES
1990**

Karuk Tribal Harvest Monitoring Program

TABLE 1.

A final summary of (C) harvest figures
obtained through direct observation and sampling.

Data group classification (C)

Based on confirmed/varified accounts

	<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>
	53-MALE	3-MALE	7-MALE
	58-FEMALE	6-FEMALE	6-FEMALE
	6-JACKS	0-JACKS	0-IMMATURE
TOTALS	117	9	13

Total for period one: 64

(Sept. 15 - Sept. 30)

Total for period two: 74

(Oct. 1 - Oct. 31)

Total for period three: 1

(Nov. 1 - Nov. 15)

***(C)**

COMBINED SEASON TOTAL: 139

(all species)

Karuk Tribal Harvest Monitoring Program

TABLE 2.

A final summary of (UC) harvest figures
obtained through personal interviews with Tribal
Fishermen

Data group classification (UC)
Based on reliable but un-confirmed accounts

	<u>CHINOOK</u>	<u>COHO</u>	<u>STEELHEAD</u>
	11-MALE	4-MALE	2-MALE
	2-FEMALE	5-FEMALE	2-FEMALE
	1-JACKS	0-JACKS	0-IMMATURE
TOTALS	14	9	4

Total for period one: 8

(Sept. 15 - Sept. 30)

Total for period two: 15

(Oct. 1 - Oct. 31)

Total for period three: 4

(Nov. 1 - Nov. 15)

*(UC)

COMBINED SEASON TOTAL: 27

(all species)

KARUK TRIBAL HARVEST MONITORING PROGRAM

TABLE 3

A final summary of *(C) and *(UC) combined
harvest figures

	CHINOOK	COHO	STEELHEAD
	53-MALE 58-FEMALE 6-JACKS	3-MALE 6-FEMALE 0-JACKS	7-MALE 6-FEMALE 0-IMMATURE
TOTALS *(C)*	117	9	13
	11-MALE 2-FEMALE 1-JACKS	4-MALE 5-FEMALE 0-JACKS	2-MALE 2-FEMALE 0-IMMATURE
TOTALS *(UC)*	14	9	4
COMBINED TOTALS *(C) AND *(UC) (ALL SPECIES)	131	18	17
	= 166		

KARUK TRIBAL HARVEST MONITORING PROGRAM

APPENDIX

D

MONTHLY PROGRESS REPORTS AND INVOICES

Karuk Tribe of California



ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

PROGRESS REPORT

Klamath Fishery Restoration Harvest Monitoring
Cooperative Agreement: 14-16-0001-90545

This progress report is for the period of September 15 through September 30, 1990.

The initial thrust of this project was spent in purchasing the necessary equipment to carry out this project as well as formating a recording method that fits the Tribe's fishery and meets the reporting requirements.

Because this is a new project, much time was spent in exploring different monitoring methods that will work effectively in the context of the Tribe's fishery.

For a significant portion of the time period covered by this report, the Karuk Pik-yo-wish ceremony was occurring. It is, therefore, important to note that the data gathered during this time was greatly affected by the ceremony, in that fish taken for ceremonial use was not counted, and therefore, is not reflected in the attached Data Summary Report. Our ability to provide total monitoring coverage during Pik-yo-wish was also somewhat impaired due to restricted access to certain strategic locations important in providing total monitoring coverage. All factors aside, the numbers on the attached data sheet is reflective of an overall low abundance of fish in the system.

LH:10/3/90

Karuk Tribe of California



ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

INVOICE

Billing Date: 3 October 1990
Billing Agency: U S Fish & Wildlife Service
Cooperative Agreement Number: 14-16-0001-90545
Period Covered: September 15, 1990 -- September 30, 1990

<u>Budget Line Item</u>	<u>Approved Amount</u>	<u>Billed This Month</u>	<u>Cumulative Amount</u>
PERSONNEL			
Salaries/Monitoring	\$7,936.00	\$1,280.00	\$1,280.00
Salaries/Training	640.00	0	0
Fringes	2,045.00	177.28	177.28
EQUIPMENT	619.00	0	0
SUPPLIES/MATERIALS	999.00	267.85	267.85
TRAVEL/PER DIEM	<u>1,666.00</u>	0	0
Program Cost Totals	\$13,905.00	\$1,725.13	\$1,725.13
ADMIN. OVERHEAD	1,390.00	172.51	172.51
Grand Totals	\$15,295.00	\$1,897.64	\$1,897.64

Karuk Tribe of California



□ ADMINISTRATIVE OFFICE:
- POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

Ron Iverson, Project Leader
Klamath Field Office
U.S. Fish & Wildlife Service
PO Box 1006
Yreka, CA. 96097

MONTHLY PROGRESS REPORT

Karuk Tribal Harvest Monitoring Program
Cooperative Agreement: # 14-16-0001-90545
Period: October 1, 1990 - October 31, 1990

During this reporting period, our monitoring efforts went rather smoothly. No major problems were encountered and our monitoring crew was able to provide a full (7) day per week coverage during all daylight hours. As a result of this intensive coverage, I am comfortable in my conclusion that the numbers provided on the attached weekly data sheets are an accurate reflection of the actual harvest during this period. Also, during this period there were only two reported incidences of un-counted harvest occurring. These two incidences were not a result of lack of coverage, but rather as a result of sly fishermen .

The attached weekly data sheets for this period will show a continuance of what was reported in the last period i.e. "Extremely" low numbers occurring in the middle to upper Klamath basin. A summary of the data recorded in this period is presented on the following page.

1.

Karuk Harvest Monitoring Program (Progress Report) conti.

CHINOOK	COHO	STEELHEAD	
25-male	3-male	3-male	
29-female	6-female	5-female	
3-jacks			
<hr/>			
57	9	8	= **74**

Total for this period= 74 / Total for last period= 64 /

Season Total To Date September 15,1990-October 31, 1990-"138"

From interviews conducted with our tribal fishermen the above numbers represent" the single worst season ever in their memory."

Attachments: Weekly Data Sheets
Invoice

Karuk Tribe of California



□ ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

INVOICE

Billing Date: 3 ^{November} ~~October~~ 1990
Billing Agency: U S Fish & Wildlife Service
Cooperative Agreement Number: 14-16-0001-90545
Period Covered: October 1, 1990 -- October 31, 1990
Budget Line Item Approved Amount Billed This Month Cumulative

Amount

PERSONNEL

Salaries/Monitoring	\$7,936.00	\$3,072.00	4,352.00
\$1,280.00			
Salaries/Training	640.00	0	0
Fringes	2,045.00	443.37	620.65
EQUIPMENT	619.00		0
SUPPLIES/MATERIALS	999.00	357.38	625.23
TRAVEL/PER DIEM	<u>1,666.00</u>	<u>0</u>	<u>0</u>
Program Cost Totals	\$13,905.00	\$ 3872.75	5,597.88
ADMIN. OVERHEAD	1,390.00	387.27	559.78
Grand Totals	\$15,295.00	\$4260.02	\$6,157.66

Karuk Tribe of California



□ ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

MONTHLY PROGRESS REPORT

Ronald A. Iverson
Project Officer, Klamath Field Office
U.S. Fish and Wildlife Service
P.O. Box 1006
Yreka, Ca. 96097-1006

COOPERATOR: Karuk Tribe Of California
P.O. Box 1016
Happy Camp, Ca. 96039

PROJECT OFFICER: Alvis Johnson, Chairman

TITLE: Karuk Tribal Harvest Monitoring Program.
Project 90-FP-1

REPORTING PERIOD: November 1 Through November 15, 1990

COOPERATIVE AGREEMENT: # 14-16-0001-90545

A. SUMMARY OF ACTIVITIES AND RESULTS:

During this reporting period, Our monitoring crew did not have a whole lot to monitor or report. This was due in part to the fact that a large portion of this reporting period was rendered unfishable by fluctuating flows. One other factor involved was the continuing low abundance of all species returning to the Klamath Basin. The combination of these two factors unquestionably, had an effect on the fishing effort during this period. It was noted by our monitoring crew, during several interviews conducted in late October and early November that several Karuk fishermen were so discouraged by the lack of harvest they had already put away their gear for the season.

Attached for your review are three (3) raw data sheets, for this period (11/1-11/15) Please note: The weekly raw data sheets that you have been receiving with each monthly report/invoice are for actual harvest seen. Our monitors have also conducted interviews with tribal fishermen to obtain an estimate of (un-seen) harvest occurring. These numbers will be blended with our actual (firm) numbers to estimate the total Karuk Subsistence harvest occurring at Ishi-Pishi Falls, during the fall of 1990. This information will be provided in the final report.

Attachments: Weekly Data Sheets
Invoice for November

Karuk Tribe of California



□ ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

INVOICE

Billing Date: 18 December 1990
Billing Agency: U S Fish & Wildlife Service
Cooperative Agreement Number: 14-26-001-90545
Period Covered: November 1, 1990 -- November 30, 1990

COPY

Budget Line Item	Approved Amount	Billed This Month	Cummulative
PERSONNEL			
Salaries/Monitoring	7,936.00	2,752.00	7,104.00
Salaries/Training	640.00	0.00	
Fringes	2,045.00	381.17	1,001.82
EQUIPMENT	619.00	0.00	0.00
SUPPLIES/MATERIALS	999.00	93.23	718.46
TRAVEL/PER DIEM	<u>1,666.00</u>	<u>0.00</u>	<u>0.00</u>
Total Program Cost	\$13,905.00	\$3,226.40	\$8,824.28
ADMINISTRATIVE OVERHEAD	<u>1,390.00</u>	<u>322.64</u>	<u>882.43</u>
Grand Totals	\$15,295.00	\$3,549.04	\$9,706.71

Karuk Tribe of California



□ ADMINISTRATIVE OFFICE:
POST OFFICE BOX 1016
HAPPY CAMP, CA 96039
(916) 493-5305

INVOICE

Billing Date: 3 January 1990
Billing Agency: U S Fish & Wildlife Service
Cooperative Agreement Number: 14-26-001-90545
Period Covered: December 1, 1990 -- December 31, 1990

Budget Line Item	Approved Amount	Billed This Month	Cummulative
PERSONNEL			
Salaries/Monitoring	7,936.00	0.00	7,104.00
Salaries/Training	640.00	320.00	320.00
Fringes	2,045.00	87.33	1,089.15
EQUIPMENT	619.00	0.00	0.00
SUPPLIES/MATERIALS	999.00	0.00	718.46
TRAVEL/PER DIEM	<u>1,666.00</u>	<u>132.05</u>	<u>132.05</u>
Total Program Cost	13,905.00	539.38	9,363.66
ADMINISTRATIVE OVERHEAD	<u>1,390.00</u>	<u>53.94</u>	<u>936.37</u>
Grand Totals	15,295.00	593.32	10,300.03

KARUK TRIBAL HARVEST MONITORING PROGRAM

APPENDIX

E

"PRESS RELEASES"

1990

Self-monitoring of Ishi-Pishi fishing initiated by Karok Tribe

SOMES BAR--This fall, the Karok Tribe will begin monitoring the traditional Karok subsistence fishery at Ishi-Pishi falls on the Klamath River. The subsistence fishery is Karok Tribal members fishing to provide food for their families. Subsistence fishing begins in the fall when the adult fish return upriver to spawn and continues as long as the fish continue to return, usually early winter.

In the spring, the young salmon and steelhead emerge from their eggs beneath the gravel. As the young fish grow, they travel downstream and eventually reach the ocean where they grow at even faster rates because of abundant food.

Monitoring of the Karok subsistence fishery was requested by the Klamath Fishery Management Council to assist in forming harvest management regulations. The knowledge gained by monitoring this fishery will be used to set regulations consistent with the basinwide plan for restoring salmon and steelhead in the Klamath River.

Tricia Whitehouse, fisheries biologist for the Klamath Restoration Program states that, "The average catch by all tribes in the Klamath basin is approximately 10 percent of the total fish returning to the Klamath River, many more fish are caught out in the ocean by commercial trollers."

Employees of the Karok Tribe will be trained to monitor the

harvest by quantifying the number of each species caught by Ishi-Pishi falls, recover and read coded wire tags and scale samples, and record and report on the length, weight, and scars on adipose fin clipped fish.

The Arcata Field Office of the U.S. Fish and Wildlife Service will train Karok employees and assist with the monitoring program. Harvest monitoring technicians will be available on site 15 hours a day from Sept. 15 through Nov. 15. Monitoring will cost \$15,000 and will probably be extended to continue next year. Leaf Hillman, Karok Tribal representative on the Klamath Fisheries Task Force, supports this monitoring program.

10-17-90

Klamath

Karuk tribe will count fish

The Karuk tribe is in the process of monitoring the fish it uses to feed its families.

Responding to a request by the Klamath Fishery Management Council, tribal employees will count the number of steelhead and salmon caught at Ishi Pishi falls to determine the volume of each species that swims up the Klamath River to spawn each fall.

They also will recover fish to read coded wire tags and scale samples, as well as record the length, weight and scars on fin-clipped fish.

Harvest-monitoring workers will be on site 15 hours a day through Nov. 15.

The council will use the information to draw up harvest management rules that are consistent with the basin-wide plan for restoring salmon and steelhead in the Klamath River.

Karuk Tribal Harvest Monitoring Program

TABLE 4.

AGE

YRS

