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WATER TEMPERATURE MONITORING

OF THE

KLAMATH RIVER MAINSTEM

Final Report

US Fish and Wildlife Service
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Prepared by

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WATER TEMPERATURE MONITORING OF THE KLAMATH RIVER MAINSTEM

ABSTRACT

This report summarizes the water temperature data collected by the Karuk Tribe of California (Karuk Tribe) from July 1993 to September 1997 at thirteen locations along the Klamath River from Upper Klamath Lake to the mouth of the Klamath River at the Pacific Ocean. This report describes the water temperature monitoring system designed by the Karuk Tribe, the data checks that were performed, and a summary of the water temperature data results.

The Karuk Tribe began this study in part in response to the Klamath River Basin Fisheries Task Force stated objective to monitor water temperature conditions above, within, and below existing water projects along the Klamath River. With help from the California Department of Fish and Game, PacifiCorp, and the Klamath National Forest, this project was expanded from six to thirteen original monitoring sites in 1993. Water temperature data were collected by Ryan TempMentor™ instruments typically on an hourly time interval. The data was checked for accuracy by consultants and reduced for this report to mean daily water temperature values each year on a monthly basis in US Geological Survey tabular format. Mean value data were entered into a Microsoft Access relational database for use on an IBM compatible computer.

Although the period of record for the Klamath River water temperature data stretches over 5 years, several gaps in data inhibit detailed analysis. The analysis presented, illustrates when the minimum and maximum preferred temperature ranges for salmonids are exceeded. In addition, preliminary temperature trend shows that in August water temperature values below Iron Gate Dam were lower than other monitoring stations further downstream. Conversely, water temperature values in October are warmer below Iron Gate than in the unregulated reaches of the Klamath River downstream. Given this information, it appears that releases from Iron Gate Dam do influence the natural water temperature balance in the Klamath River. To more accurately determine the extent of reservoir releases on the natural thermal environment, additional water temperature measurements need to be collected.

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Background

This is the fifth and final report to the United States Fish and Wildlife Service concerning activities conducted under the terms of the Cooperative Agreement Number 14-48-0001-92661, which covers the period from July, 1993, to September, 1997. Appendices A - F include summaries of the data collected during this period. This report summarizes the temperature data collected for this period of record and describes the activities that have been initiated and/or completed for the Water Temperature Monitoring of the Klamath River Mainstem Project. To help produce this report and analyze the water temperature data, the Karuk Tribe of California (Karuk Tribe) retained Riverside Technology, inc. (Rti) in Fort Collins, Colorado. RTi produced this report to examine and analyze water temperature data on the Klamath River during water years 1993 through 1997. This data was collected by the Karuk Tribe and its cooperators, including PacifiCorp, the U.S. Forest Service, and the California Department of Fish and Game.

This report describes the water temperature monitoring system designed by the Karuk Tribe, the data checks that were performed to control data quality, and a summary of the water temperature data. As part of the data summary discussion, RTi has provided analysis results with respect to spatial and temporal trends, daily streamflow records, and published salmonid fishery temperature tolerances.

Monitoring System Design and Data Checks

The Karuk Tribe, in response in part to the Klamath Task Force Objective 2.E.b., designed the monitoring system to track water temperatures from the tailwaters of Link River Dam in Oregon down to the Klamath River mouth near the Pacific Ocean. Table 1 lists the 13 monitoring devices that were deployed at the following locations along this river reach.

TABLE 1

Water Temperature Monitoring Locations

Station #1	Below Link River Dam	LINK
Station #2	Below Keno Dam	KENO
Station #3	Below Boyle Dam*	BOYLE
Station #4	Below Copco Dam*	COPCO
Station #5	Below Iron Gate Dam	IRON
Station #6	Above the Shasta River*	ASHA
Station #7	Below the Shasta River*	BSHA
Station #8	Above the Scott River	ASCO
Station #9	Below the Scott River*	BSCO
Station #IO	Above the Salmon River	ASAL
Station #II	Below the Salmon River*	BSAL
Station #12	Above the Trinity River	ATRIN
Station #13	Mouth near the Pacific Ocean	MOUTH

*These gages are included in addition to the seven described in the original proposal.

As indicated in **Table 1**, seven water temperature monitoring sites were established in the Klamath River mainstem from Link River Dam in Oregon to the mouth of the Klamath River near the Pacific Ocean. With help from the California Department of Fish and Game, PacifiCorp, and the Klamath River National Forest, six additional water temperature monitoring sites were recorded along the Klamath River mainstem since the project was initiated in 1993 at no additional cost. Breaks in water temperature data throughout the period of record reflect difficulties that cooperators face in maintaining a continuous data record throughout the year.

To allow for thorough water mixing, the monitoring stations below three Klamath tributaries (the Shasta, Scott, and Salmon rivers) were placed 3 to 5 miles downstream of their respective confluences with the Klamath River. The Ryan TempMentor™ monitoring device (a portable, low-maintenance, self contained temperature sensor produced by Ryan Instruments) was used at each location. Ryan Instruments calibrates each TempMentor™ at the factory with equipment traceable to the National Institute of Standards and Technology.

The raw data retrieved from the Ryan TempMentors™ were instantaneous recordings typically on an hourly time interval. Rti subsequently reduced these data to mean daily temperature values. In addition to formatting these data in a typical USGS (U.S. Geological Survey) tabular format, Rti computed the monthly average, maximum, and minimum mean daily temperatures for the annual progress reports. The data quality assurance and quality control process involved manually checking the resulting statistics. Rti made checks to identify if large negative numbers were recorded and to see if the monthly minimum and maximum instantaneous values were within a reasonable range. If negative values or recordings were clearly incorrect then Rti removed these points from the data set.

Planned Objectives

To evaluate the water temperature data collected from 1993 to the present (Program Objective A), the Karuk Tribe retained Rti to analyze water temperature data and write subsequent reports. Rti has completed these reports and has evaluated all the water temperature data to isolate any changes in mainstem water temperatures that may exist by stream reach (Program Objective B). In addition to evaluating water temperature data, Rti populated a relational database with water temperature and streamflows to investigate this relationship from Link River downstream (Program Objective C). A summary of these evaluations is included in this final report, which also includes an analysis of spatial and temporal trends and salmonid developmental lifestages (Program Objective D).

All water temperature data collected by the Karuk Tribe are available for incorporation into the Klamath Resources Information System (KRIS). This information is useful in comparing water temperatures between stations throughout the Klamath River mainstem.

Spatial and Temporal Water Temperature Trends

The accuracy of any trend analysis is dependent on the number of years of data available. While the period of record for the Klamath River water temperature data stretches over 5 years, several gaps in the data prohibit a detailed analysis for the entire year. However, a few months contained nearly complete records, both spatially and temporally. Specifically, water temperatures recorded between August through October produced the most complete data set along the entire length of the river.

Figures 1 and **2** depict the mean monthly water temperatures in degrees Fahrenheit at specific monitoring locations along the Klamath River for the months of August and October, respectively. Only those monitoring stations with complete daily records are displayed in these figures. From the available data, a few spatial trends appear to exist. In August, water temperatures upstream of Iron Gate Dam ("Iron" on Figure 1) appear to gradually increase as the water flows through the Link River and the Keno dams. Water temperatures drop significantly after the water passes through Boyle Dam, and increase again along the river reach that contains the Copco and Iron Gate reservoirs. Downstream of Iron Gate Dam, the mainstem water temperatures slowly increase (with some fluctuation caused by tributary inflow). As the streamflow approaches the ocean, the water temperature decreases.

August Mean Monthly Temperatures 93'-97'

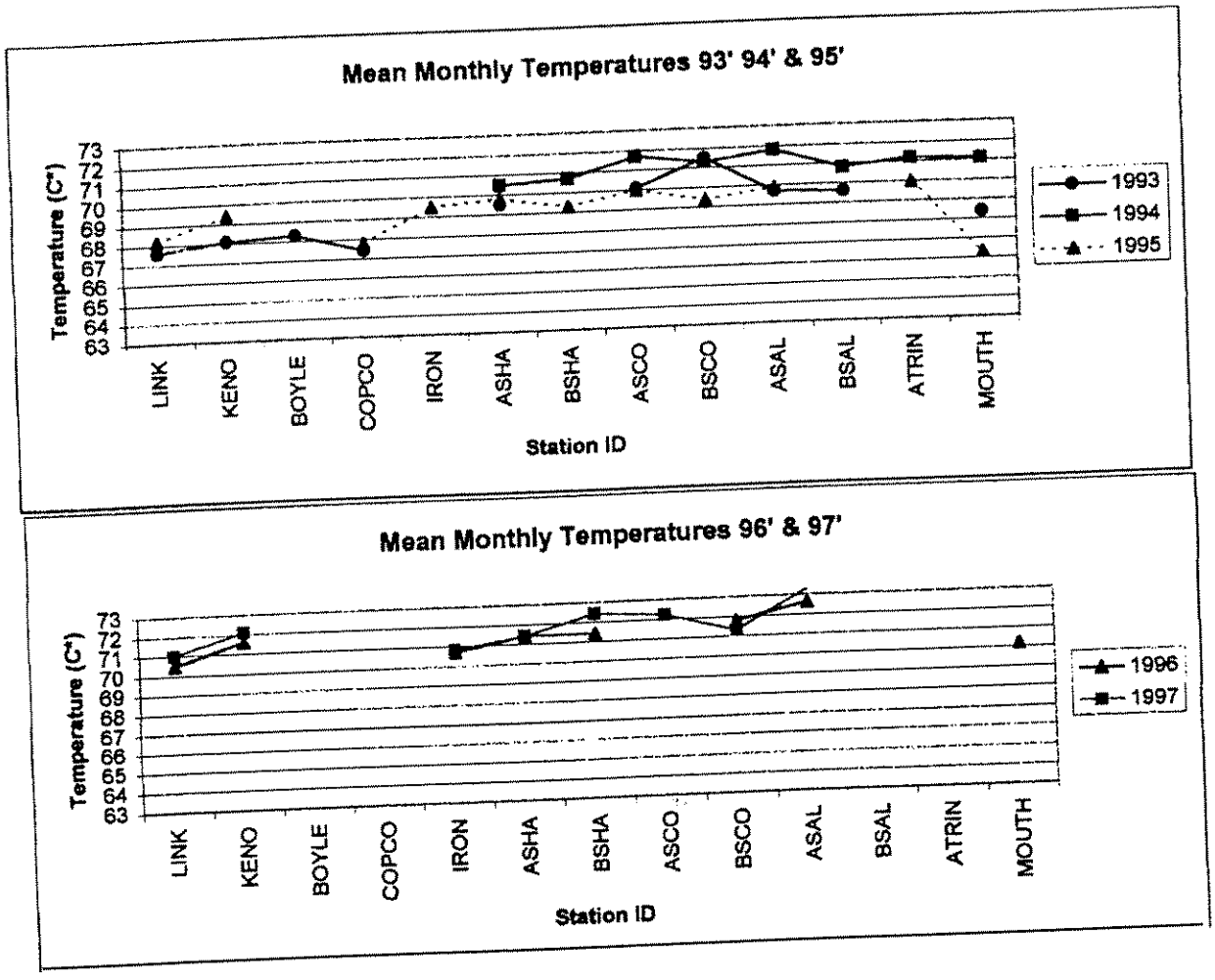

Figure 1

Upstream of Iron Gate Reservoir, water temperature trends in October (**Figure 2**) are difficult to define due to inconsistent data, especially between Keno and Copco dams. However, limited data from 1994 and 1995 suggest that in October, water temperatures downstream of Iron Gate dam decrease (with some fluctuation from tributary inflow), then increase as the water moves closer to the Pacific Ocean. The mean water

temperatures recorded below Iron Gate Reservoir in August are highly variable downstream between 1994 and 1995 water years. More consistent data are needed to verify the patterns suggested for each month.

October Mean Monthly Temperatures 93'-97'

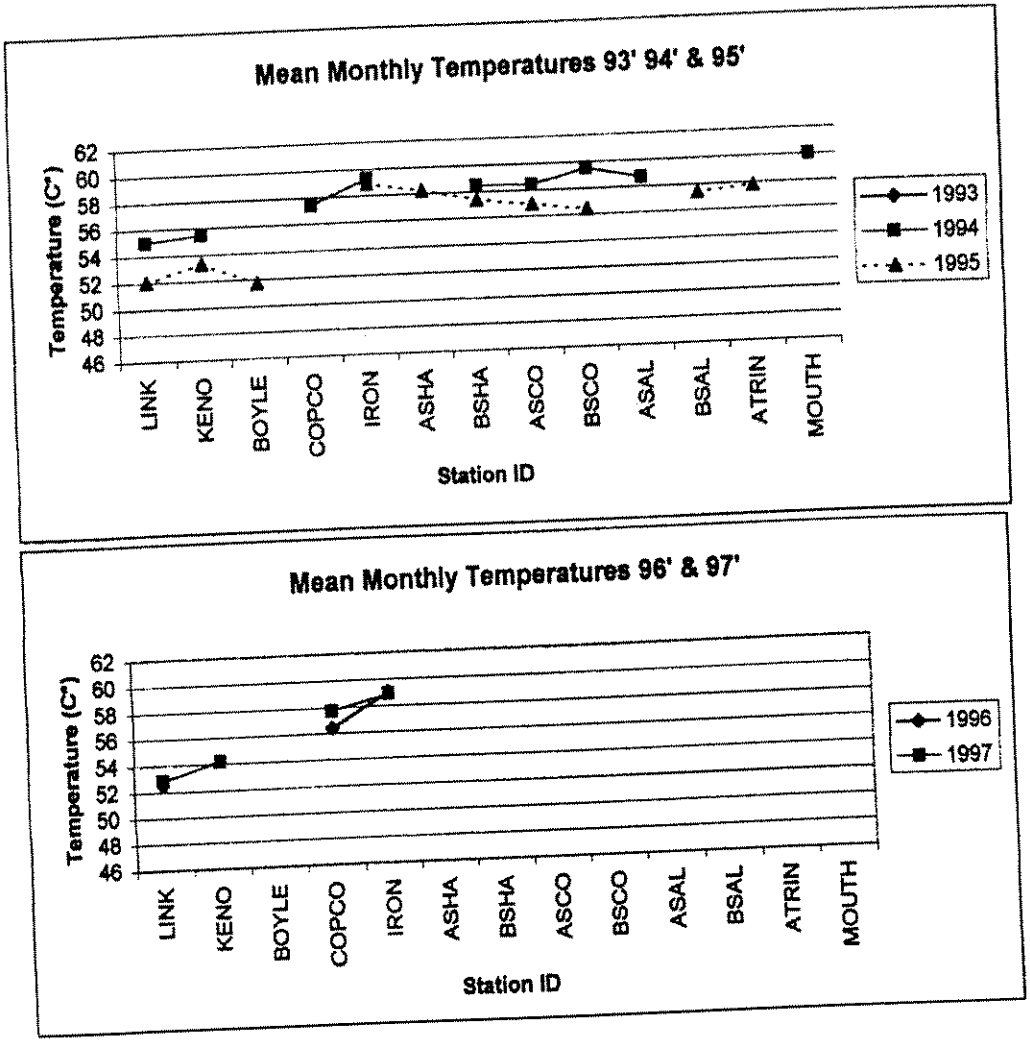

Figure 2

Water temperatures between the Link River and Iron Gate dams followed typical seasonal patterns: cold during the winter months and warm during the summer months (Karuk 1995, 1997). Temporal trends for the other monitoring locations were not possible because of the lack of continuous annual measurements.

Salmonid Fisheries

Daily water temperature data collected at the monitoring locations between Iron Gate Reservoir and the mouth of the Klamath River were compared with temperature criteria for anadromous salmonids fisheries. Four species were included in this analysis: Spring Chinook salmon, Fall Chinook salmon, Coho salmon, and Steelhead trout. RTi used the Klamath River Basin Fisheries Resource Plan (U.S. Department of the Interior 1985) for the background information and temperature criteria in this analysis.

Each salmonid fish species was initially divided into its developmental stages. Next, the duration of the fish's activity and its preferred water temperature range within each developmental stage were identified. If the Resource Plan did not provide information about the temperature range for a given development stage RTi omitted that stage in the analysis.

Table 2 shows the percentage of daily water temperature data at each monitoring location for a given developmental stage versus the total number of days in the stage for water years 1993 through 1997. While the percentage of available data was consistently near 80 percent at the monitoring site below Iron Gate Reservoir, most of the other stations had less than 50 percent of the daily temperature data for a majority of the developmental stage. The best period of record appears to come in the fall (e.g., September through November), while the least complete data is in the winter and early spring months (e.g., November through April) when winter flows prevent the use of Ryan TempMentors™ for continuous data collection.

Given the available water temperature data, RTi compared the preferred temperature range for each development stage of a species with the recorded Klamath River temperatures. **Tables 3** and **4** depict the percentage of days containing available data that fell below and above the minimum and maximum preferred temperature values, respectively. A percentage (instead of the number of days falling below or above the temperature range) is shown because of the relatively short length of record available. As seen in **Table 3**, the adult immigration stage of the Spring Chinook salmon had the smallest percentage of days falling below the minimum preferred temperature value over the entire river reach, while the largest percentage occurs during the rearing and the egg/alevin incubation stages for most salmonids. As seen in **Table 4**, the Klamath River temperature values during the egg/alevin incubation stage of the Coho salmon created the smallest percentage of days rising above the maximum preferred temperature value. High Klamath River water temperature values appear to have the greatest impact on the adult immigration and spawning of Spring Chinook salmon followed by the rearing of Coho and Steelhead.

Klamath River Water Temperatures Below Iron Gate Reservoir

The presence of a reservoir in a river basin usually alters the stream's natural temperature patterns. Despite the short period of record of water temperature data available on the Klamath River, the analysis presented earlier provides some preliminary indications that Iron Gate Reservoir may also affect the Klamath River water temperatures. **Figure 1** shows that in August water temperature values for 1995 rise between Copco and Iron Gate Dam before water is released downstream. Conversely, water temperature values in October 1994 and 1995 (see **Figure 2**) suggest that water released from Iron Gate Dam during October is warmer than water temperatures downstream to the Scott River. These preliminary observations are echoed in an NBS (National Biological Service) report that indicates that Klamath River reservoirs, including Iron Gate, reduced the mean July temperature and increased October's by 2 degrees Centigrade (Bartholow 1995). Assuming that the hypothesis that the river's natural temperature balance is influenced by releases at Iron Gate Dam, what relationship does air temperature have on the water releases?

Table 2
Percent of Available Daily Data for Given Salmonid Development Stage at Each Monitoring Gage Location

Species	Developmental Stage	Period of Developmental Stage Activity		Percent of Available Data								
		Month	Month	Iron Gate	Above Shasta	Below Shasta	Above Scott	Below Scott	Above Salmon	Below Salmon	Above Trinity	Klamath Mouth
Spring Chinook Salmon	Adult Immigration	MAR	SEPT	72	41	46	45	54	56	31	43	52
	Spawning	SEPT	NOV	78	44	62	57	69	52	39	33	66
	Egg/Alevin Incubation	SEPT	FEB	77	32	41	51	48	39	28	29	54
	Rearing	Over 1 year		73	34	39	46	47	44	28	35	49
Fall Chinook Salmon	Spawning	SEPT	DEC	77	39	52	55	59	45	35	31	62
	Egg/Alevin Incubation	SEPT	FEB	77	32	41	51	48	39	28	29	54
Coho Salmon	Spawning	NOV	FEB	75	21	22	46	33	25	18	25	43
	Egg/Alevin Incubation	NOV	APR	75	17	18	39	30	25	17	29	37
	Rearing	Over 1 year		73	34	39	46	47	44	28	35	49
Steelhead Trout	Rearing	Over 1 year		73	34	39	46	47	44	28	35	49

Table 3
Percent of Days Below the Preferred Temperature Range for a Given Salmonid Species

Species	Developmental Stage	Period of Developmental Stage Activity		Preferred Temperature Range		Percent of Days Below Range								
		Month	Month	Minimum (deg F)	Maximum (deg F)	Iron Gate	Above Shasta	Below Shasta	Above Scott	Below Scott	Above Salmon	Below Salmon	Above Trinity	Klamath Mouth
Spring Chinook Salmon	Adult Immigration	MAR	SEPT	38	56	0	0	0	0	0	0	0	0	0
	Spawning	SEPT	NOV	42	57	0	0	0	2	1	2	4	3	0
	Egg/Alevin Incubation	SEPT	FEB	41	58	29	19	12	21	9	11	6	3	1
	Rearing	Over 1 year		57	67	57	27	27	45	40	31	36	53	38
Fall Chinook Salmon	Spawning	SEPT	DEC	42	58	12	12	9	18	9	10	13	9	3
	Egg/Alevin Incubation	SEPT	FEB	41	58	29	17	12	21	9	11	6	3	1
Coho Salmon	Spawning	NOV	FEB	40	49	35	18	13	21	9	18	5	1	0
	Egg/Alevin Incubation	NOV	APR	40	56	24	14	11	16	6	12	3	< 1	0
	Rearing	Over 1 year		53	58	48	22	19	39	33	26	25	38	33
Steelhead Trout	Rearing	Over 1 year		45	58	27	15	14	26	16	16	16	13	10

Table 4
Percent of Days Above the Preferred Temperature Range for a Given Salmonid Species

Species	Developmental Stage	Period of Developmental Stage Activity		Preferred Temperature Range		Percent of Days Above Range								
		Month	Month	Minimum (deg F)	Maximum (deg F)	Iron Gate	Above Shasta	Below Shasta	Above Scott	Below Scott	Above Salmon	Below Salmon	Above Trinity	Klamath Mouth
Spring Chinook Salmon	Adult Immigration	MAR	SEPT	38	56	66	95	96	88	81	88	87	67	89
	Spawning	SEPT	NOV	42	57	58	71	69	53	63	74	58	59	69
	Egg/Alevin Incubation	SEPT	FEB	41	58	27	47	51	29	43	50	41	32	39
	Rearing	Over 1 year		57	67	16	42	43	32	36	43	32	28	32
Fall Chinook Salmon	Spawning	SEPT	DEC	42	58	40	57	59	40	52	63	47	45	50
	Egg/Alevin Incubation	SEPT	FEB	41	58	27	47	51	29	43	50	41	32	39
Coho Salmon	Spawning	NOV	FEB	40	49	19	10	10	6	8	4	3	5	11
	Egg/Alevin Incubation	NOV	APR	40	56	< 1	6	5	5	0	3	3	2	4
	Rearing	Over 1 year		53	58	41	70	70	52	56	68	61	43	57
Steelhead Trout	Rearing	Over 1 year		45	58	41	70	70	52	56	68	61	43	57

The Klamath River downstream of Iron Gate Dam flows nearly unregulated, except for a few diversions. Therefore changes in the water temperature regime downstream of Iron Gate Dam could be caused by environmental factors. Factors that influence stream temperatures at any given location include local climate, stream depth, ground water contribution, riparian vegetation, and topography (Brown 1969, Edinger et al. 1968). The most influential of these four factors is the local climate, particularly air temperature. Consequently, the boundary that produces the greatest heat exchange in a river is its surface area. Furthermore, the water temperature, particularly the equilibrium temperature (i.e., the temperature where the net heat input is equal to the net heat output) typically tracks the air temperature on diurnal and annual cycles (Edinger et al. 1968).

The notion of meteorological elements having a substantial role in a river's water temperature regime is reinforced through a basic advection model for flowing rivers (Edinger et al. 1974):

$$\frac{\partial(hT)}{\partial t} + \frac{\partial(QT)}{\partial A} + k(T - E) = 0$$

where h is stream depth, T is water temperature, t is time, Q is streamflow, A is stream surface area, k is a coefficient, and E is the equilibrium temperature. It is important to note that both k and E are functions of meteorological conditions, including air temperature, dew point temperature, wind speed, and solar radiation. In this equation, the surface area of the river also plays a critical role in determining how the water temperature changes over time and distance.

To determine if this general concept concerning the impact of air temperature applies to the Klamath River basin, RTi conducted a linear regression analysis on mean daily air and water temperatures. Daily air temperature data were obtained from the NOAA (National Oceanic and Atmospheric Administration) Western Regional Climate Center, for water years 1993 through 1997 at the Yreka, California station (ID 049866). RTi chose this station because it was centrally located for the majority of the water temperature gages deployed downstream of Iron Gate Reservoir. These data were matched with the corresponding mean daily water temperature recordings made with the Ryan TempMentor™ gages.

Figure 3 shows the results of the linear regression performed on the mean daily data for 8 water temperature stations downstream of Iron Gate Dam. While all points indicate that water temperature is correlated highly with regional air temperature, the values increase as one moves downstream from Iron Gate Dam (i.e., going from left to right on the graph). The relatively low correlation results beginning at the Iron Gate station slowly improve until they peak near 0.9 just above the Scott River confluence with the Klamath River. The correlation value at the Klamath River mouth is expected to decrease because the climate conditions near the ocean are not reflected in the data collected at the inland air temperature gage (Yreka). The results of the linear regression indicate that air temperature is highly correlated with water temperature, reaching peak just above the Scott River.

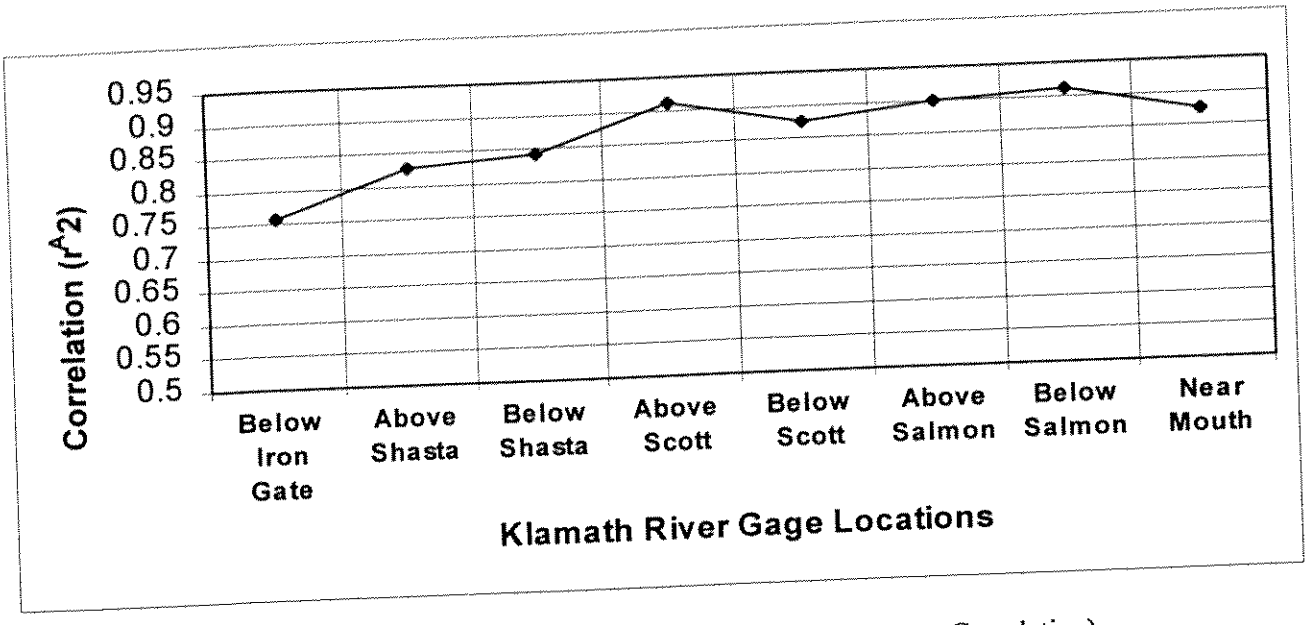

Figure 3. Linear Regression Results (Mean Daily Air and Water Temperature Correlation)

Summary and Recommendations

The largest percentage of days below the preferred water temperature range for the Chinook, Coho and Steelhead life stages that were examined, occurs during the rearing and the egg/alevin incubation stages for most salmonids. High Klamath River water temperature values appear to have the greatest impact on the adult immigration and spawning of Spring Chinook salmon followed by the rearing of Coho and Steelhead.

Preliminary results indicate that water releases from Iron Gate Dam do influence the natural water temperature balance in the Klamath River downstream. To determine if air temperature has an impact on water temperatures once water is released from Iron Gate Dam, RTi conducted a linear regression analysis on mean daily air and water temperatures. The results of the linear regression indicate that air temperature is highly correlated with water temperature, reaching a peak just above the Scott River confluence with the Klamath River. To better understand the relationship between water and air temperatures in relation to down stream flows below the dams additional water and air temperature measurements need to be collected.

One option is to continue to collect data from the University of California, Davis (UCD) monitoring devices at locations along the Klamath River, which mark the 12 and 24-hour travel times of the average Iron Gate Dam releases. As the hydrodynamics modeling group at UCD suggests, a period of maximum and minimum diurnal temperature variation exists at the 12 and 24-hour points, respectively (Center for Environmental and Water Resources Engineering, 1998). Additional measurements could be taken such that the extreme diurnal effects of the Iron Gate Dam releases will be visible, and so that it will be possible to accurately determine how far downstream these effects will propagate.

RTi could not conduct a thorough statistical analysis of stream flow at point locations from the Link River Dam to the Klamath River mouth because of breaks in the water temperature data record. Since the other storage impoundments and the springs below Boyle Reservoir may be altering the natural thermal environment, more consistent temperature data collection is necessary to capture the effects of both average and extreme stream flow conditions throughout the river.

The water temperature data described in this report produces a foundation for long-term monitoring of the Klamath River mainstem. Any additional effort made to fill in the missing data gaps in the future will only enhance future analyses. RTi also recommends continued monitoring of water temperatures upstream of Iron Gate Reservoir, and extending the monitoring network to include temperature stratums within the reservoirs. Continuous water quality and atmospheric monitoring at existing USGS streamflow gaging stations would be a logical subsequent step. By collecting continuous data, this information could be correlated with potential effects on anadromous fisheries and other aquatic resources within the Klamath River Basin.

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Appendix A

Water Temperature Monitoring of the Klamath River Mainstem

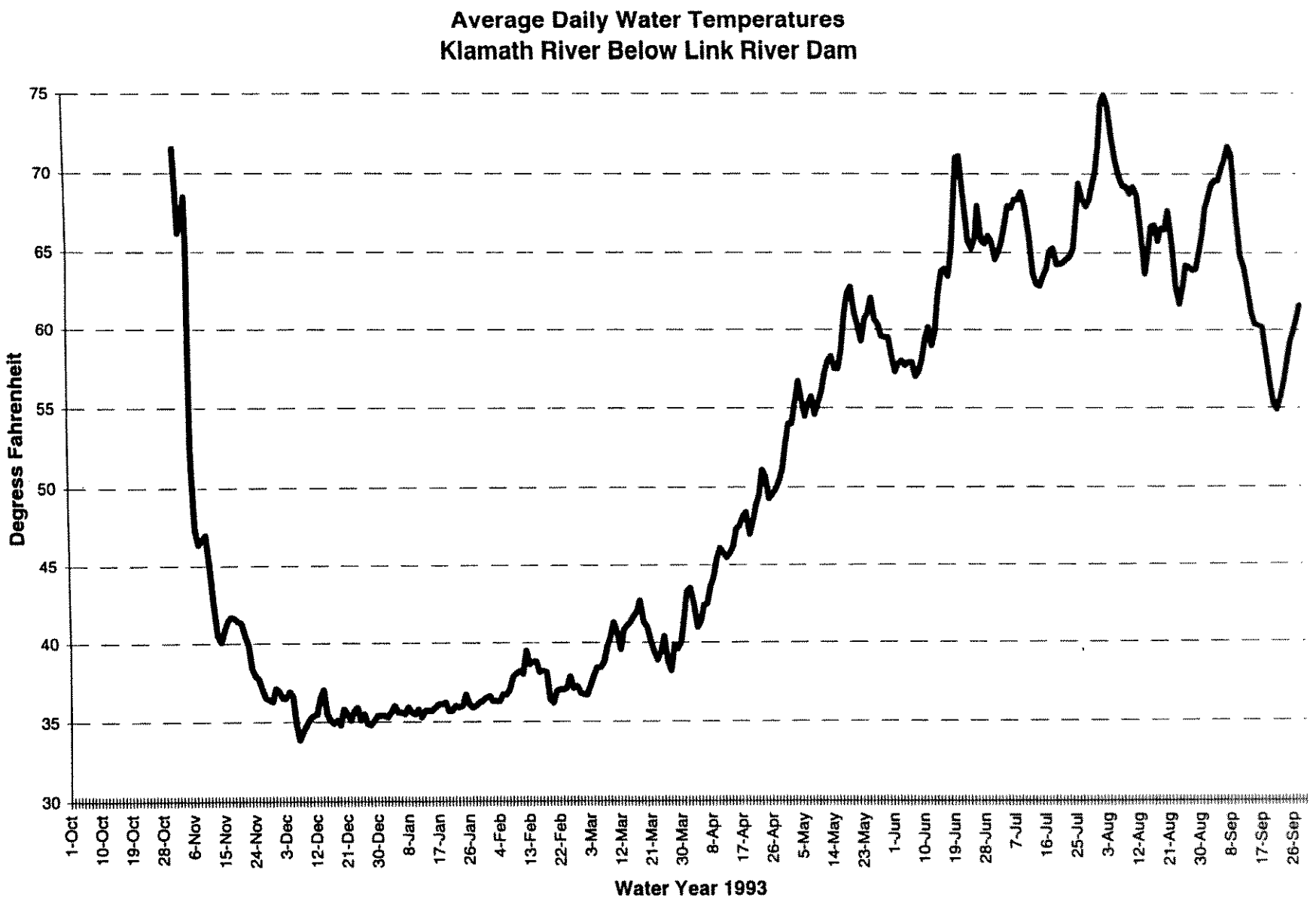
1993 Water Year

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below Link River Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	36.9	35.4	36.6	36.7	43.3	52.7	59.5	66.1	69.3	65.1
2	---	71.6	36.5	35.3	36.3	36.7	43.5	54.0	58.3	65.7	70.1	66.2
3	---	66.2	36.5	35.6	36.3	37.3	42.5	54.0	57.3	64.6	71.6	67.9
4	---	67.1	36.9	36.0	36.3	37.9	41.0	55.3	57.8	65.1	74.3	68.6
5	---	68.5	36.6	35.6	36.7	38.4	41.4	56.7	58.0	65.8	74.9	69.3
6	---	52.3	34.8	35.6	36.7	38.4	42.4	55.5	57.7	66.9	74.2	69.6
7	---	47.4	33.9	35.5	37.0	38.8	42.5	54.5	57.9	68.0	72.3	69.6
8	---	46.4	34.4	35.9	37.8	39.8	43.6	55.3	57.9	67.9	70.8	70.3
9	---	46.7	34.8	35.6	38.0	40.4	44.2	55.7	57.0	68.4	69.8	70.9
10	---	47.0	35.2	35.5	38.2	41.3	45.4	54.6	57.3	68.4	69.3	71.7
11	---	45.0	35.4	35.8	38.0	40.7	46.1	55.3	58.1	68.9	69.2	71.2
12	---	42.6	35.5	35.3	39.5	39.6	45.8	56.0	59.4	67.9	68.8	67.4
13	---	40.5	36.5	35.7	38.6	40.8	45.5	57.2	60.2	66.1	69.2	64.8
14	---	40.1	37.0	35.7	38.8	41.1	45.8	58.0	59.0	63.7	68.7	64.1
15	---	40.8	35.5	35.7	38.8	41.3	46.2	58.3	59.9	63.0	66.3	62.7
16	---	41.4	35.1	35.9	38.1	41.7	47.3	57.5	62.4	62.9	63.7	61.1
17	---	41.7	34.9	36.1	38.2	42.0	47.5	57.5	63.8	63.5	65.0	60.4
18	---	41.6	35.1	36.1	38.1	42.7	48.1	58.7	64.0	64.0	66.7	60.3
19	---	41.4	34.8	36.2	36.4	41.3	48.4	61.0	63.5	65.1	66.8	60.2
20	---	41.3	35.8	35.7	36.2	41.0	47.0	62.4	65.2	65.3	65.8	58.5
21	---	40.5	35.5	35.7	36.9	40.1	47.8	62.8	68.2	64.3	66.6	56.6
22	---	39.9	35.1	36.0	37.0	39.4	48.8	61.1	71.0	64.3	66.5	55.3
23	---	38.4	35.7	35.9	37.0	38.9	49.5	60.3	71.1	64.4	67.7	54.9
24	---	37.9	35.9	36.0	37.1	39.4	51.1	59.3	68.4	64.6	65.7	55.6
25	---	37.7	35.1	36.7	37.8	40.4	50.7	60.7	65.8	64.8	62.8	56.6
26	---	37.0	35.5	36.1	37.1	38.8	49.3	61.1	65.3	65.3	61.7	58.0
27	---	36.5	34.9	35.9	37.2	38.2	49.6	62.1	65.9	67.4	62.8	59.2
28	---	36.4	34.8	36.0	36.8	39.8	49.9	60.7	68.0	69.4	64.2	59.9
29	---	36.3	35.1	36.2	---	39.6	50.4	60.4	65.8	68.4	64.1	60.7
30	---	37.1	35.4	36.3	---	40.0	51.1	59.6	65.6	68.0	63.9	61.6
31	---	---	35.4	36.5	---	41.5	---	59.5	---	68.4	64.0	---
MEAN	---	---	35.5	35.9	37.4	39.8	46.5	58.0	62.3	66.0	67.6	63.3
MAX	---	---	37.0	36.7	39.5	42.7	51.1	62.8	71.1	69.4	74.9	71.7
MIN	---	---	33.9	35.3	36.2	36.7	41.0	52.7	57.0	62.9	61.7	54.9


Average Daily Water Temperatures
Klamath River Below Link River Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
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8-Apr
17-Apr
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5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
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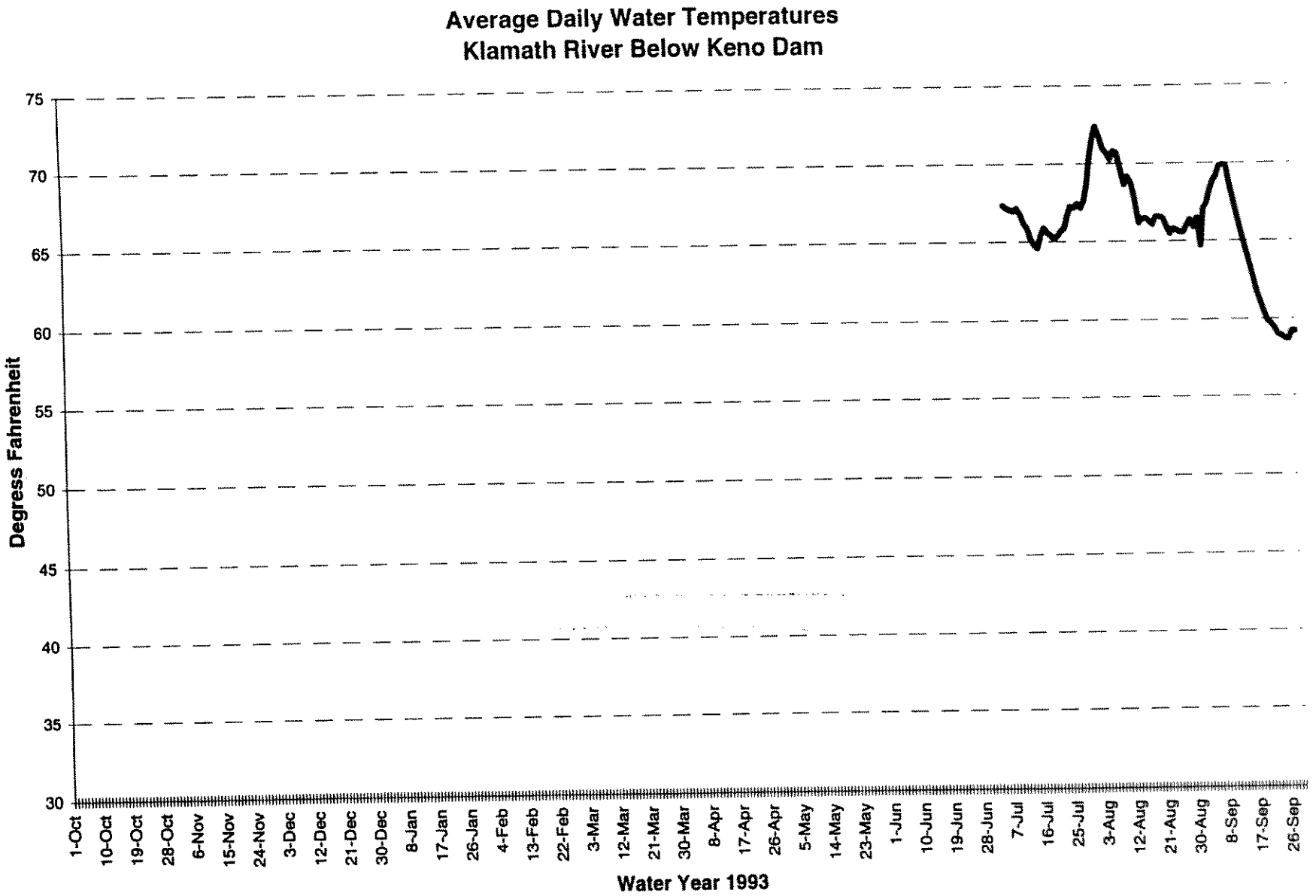
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below Keno Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	68.8	65.9
2	---	---	---	---	---	---	---	---	---	---	70.4	66.5
3	---	---	---	---	---	---	---	---	---	---	71.6	64.7
4	---	---	---	---	---	---	---	---	---	---	72.4	67.1
5	---	---	---	---	---	---	---	---	---	---	71.8	67.5
6	---	---	---	---	---	---	---	---	---	---	71.0	68.3
7	---	---	---	---	---	---	---	---	---	67.4	70.7	68.9
8	---	---	---	---	---	---	---	---	---	67.2	70.3	69.2
9	---	---	---	---	---	---	---	---	---	67.1	70.8	69.8
10	---	---	---	---	---	---	---	---	---	67.0	70.7	69.9
11	---	---	---	---	---	---	---	---	---	67.2	69.7	69.8
12	---	---	---	---	---	---	---	---	---	66.8	68.7	68.5
13	---	---	---	---	---	---	---	---	---	66.2	69.2	67.5
14	---	---	---	---	---	---	---	---	---	65.9	68.8	66.4
15	---	---	---	---	---	---	---	---	---	65.2	67.7	65.4
16	---	---	---	---	---	---	---	---	---	64.8	66.2	64.5
17	---	---	---	---	---	---	---	---	---	64.6	66.5	63.7
18	---	---	---	---	---	---	---	---	---	65.4	66.5	62.8
19	---	---	---	---	---	---	---	---	---	65.9	66.3	61.9
20	---	---	---	---	---	---	---	---	---	65.6	66.1	61.2
21	---	---	---	---	---	---	---	---	---	65.4	66.6	60.5
22	---	---	---	---	---	---	---	---	---	65.2	66.6	59.9
23	---	---	---	---	---	---	---	---	---	65.4	66.5	59.7
24	---	---	---	---	---	---	---	---	---	65.7	66.0	59.4
25	---	---	---	---	---	---	---	---	---	65.9	65.5	59.0
26	---	---	---	---	---	---	---	---	---	66.7	65.8	58.9
27	---	---	---	---	---	---	---	---	---	67.3	65.7	58.7
28	---	---	---	---	---	---	---	---	---	67.2	65.6	58.7
29	---	---	---	---	---	---	---	---	---	67.5	65.6	59.2
30	---	---	---	---	---	---	---	---	---	67.2	66.0	59.2
31	---	---	---	---	---	---	---	---	---	67.7	66.4	---
MEAN	---	---	---	---	---	---	---	---	---	---	68.1	64.1
MAX	---	---	---	---	---	---	---	---	---	---	72.4	69.9
MIN	---	---	---	---	---	---	---	---	---	---	65.5	58.7


Average Daily Water Temperatures
Klamath River Below Keno Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
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13-Feb
22-Feb
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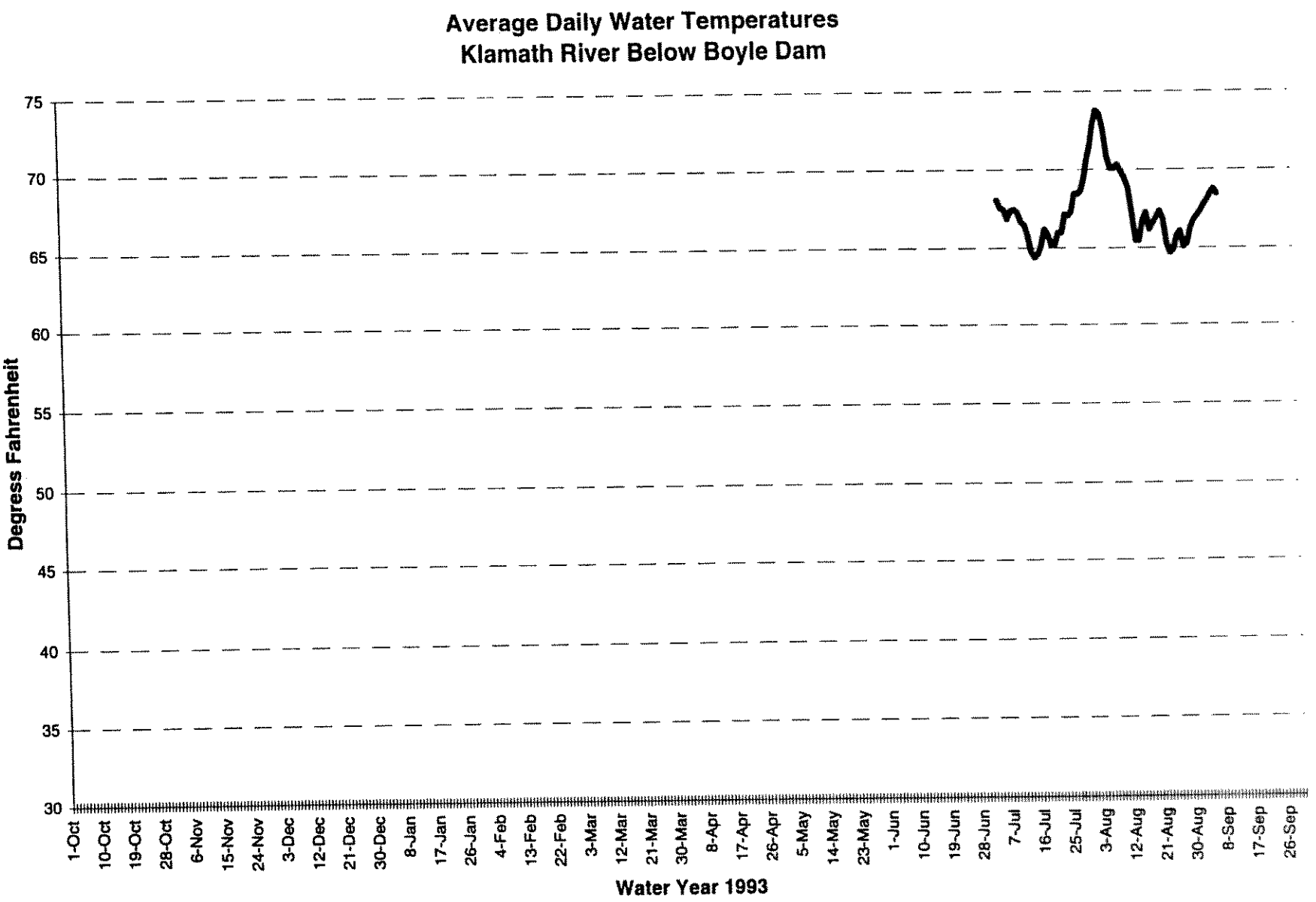
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below Boyle Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	69.4	66.3
2	---	---	---	---	---	---	---	---	---	---	70.6	66.8
3	---	---	---	---	---	---	---	---	---	---	71.5	67.1
4	---	---	---	---	---	---	---	---	---	---	72.9	67.4
5	---	---	---	---	---	---	---	---	---	---	73.8	67.8
6	---	---	---	---	---	---	---	---	---	68.1	73.6	68.1
7	---	---	---	---	---	---	---	---	---	67.6	72.6	68.5
8	---	---	---	---	---	---	---	---	---	67.5	70.8	68.8
9	---	---	---	---	---	---	---	---	---	66.9	70.1	68.5
10	---	---	---	---	---	---	---	---	---	67.4	70.1	---
11	---	---	---	---	---	---	---	---	---	67.5	70.3	---
12	---	---	---	---	---	---	---	---	---	67.3	69.9	---
13	---	---	---	---	---	---	---	---	---	66.7	69.5	---
14	---	---	---	---	---	---	---	---	---	66.5	68.9	---
15	---	---	---	---	---	---	---	---	---	65.8	67.2	---
16	---	---	---	---	---	---	---	---	---	64.8	65.5	---
17	---	---	---	---	---	---	---	---	---	64.4	65.5	---
18	---	---	---	---	---	---	---	---	---	64.6	66.8	---
19	---	---	---	---	---	---	---	---	---	65.2	67.3	---
20	---	---	---	---	---	---	---	---	---	66.2	66.2	---
21	---	---	---	---	---	---	---	---	---	65.9	66.6	---
22	---	---	---	---	---	---	---	---	---	65.2	67.0	---
23	---	---	---	---	---	---	---	---	---	65.2	67.4	---
24	---	---	---	---	---	---	---	---	---	66.0	66.9	---
25	---	---	---	---	---	---	---	---	---	66.0	65.3	---
26	---	---	---	---	---	---	---	---	---	67.2	64.7	---
27	---	---	---	---	---	---	---	---	---	67.1	64.9	---
28	---	---	---	---	---	---	---	---	---	67.4	65.8	---
29	---	---	---	---	---	---	---	---	---	68.5	66.1	---
30	---	---	---	---	---	---	---	---	---	68.5	65.1	---
31	---	---	---	---	---	---	---	---	---	68.7	65.3	---
MEAN	---	---	---	---	---	---	---	---	---	---	68.3	---
MAX	---	---	---	---	---	---	---	---	---	---	73.8	---
MIN	---	---	---	---	---	---	---	---	---	---	64.7	---


Average Daily Water Temperatures
Klamath River Below Boyle Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
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24-Nov
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4-Feb
13-Feb
22-Feb
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12-Mar
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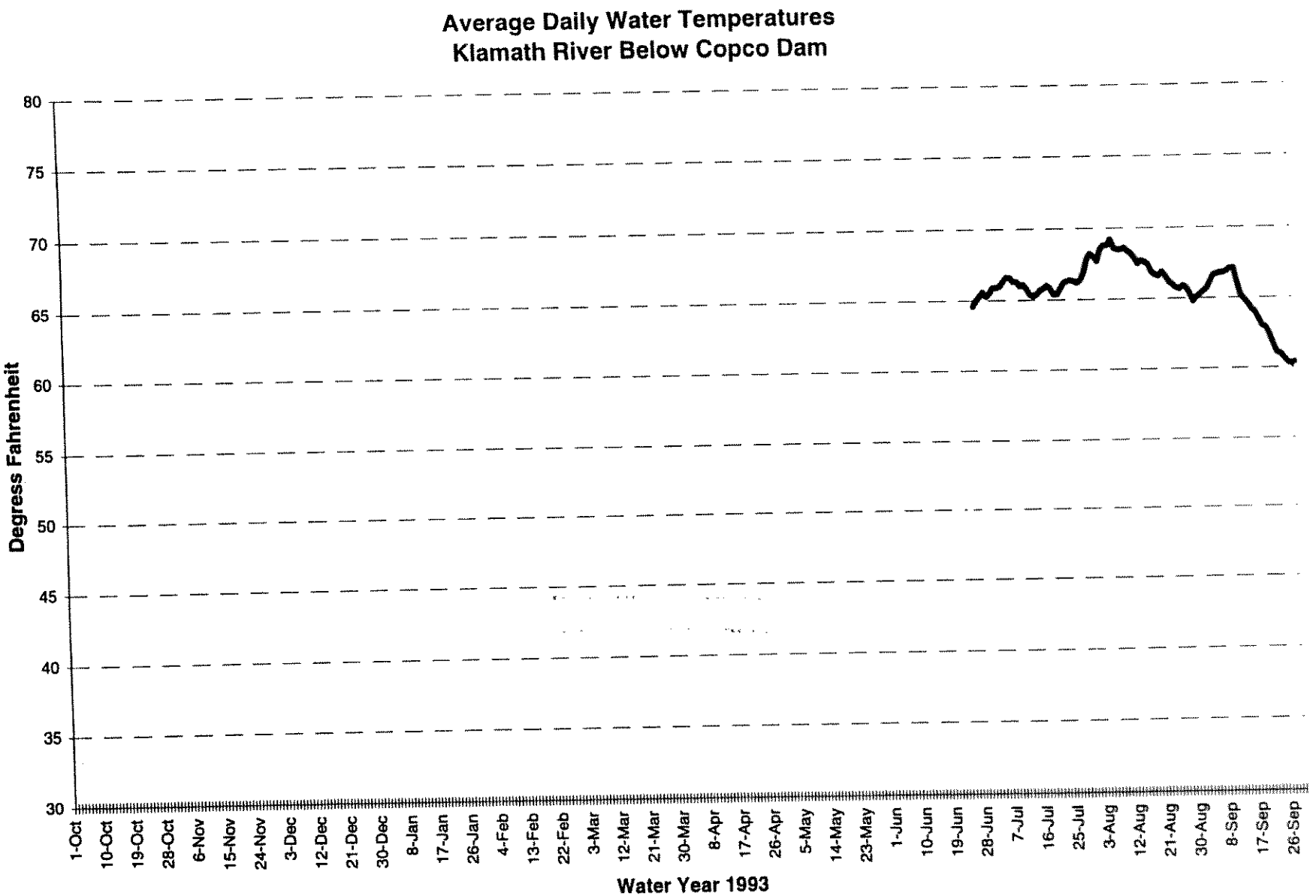
17-Sep
26-Sep
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below Copco Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	65.6	67.8	64.8
2	---	---	---	---	---	---	---	---	---	65.3	68.2	65.1
3	---	---	---	---	---	---	---	---	---	65.5	68.0	65.3
4	---	---	---	---	---	---	---	---	---	65.9	67.7	65.5
5	---	---	---	---	---	---	---	---	---	65.9	68.5	65.7
6	---	---	---	---	---	---	---	---	---	66.0	68.8	66.1
7	---	---	---	---	---	---	---	---	---	66.3	68.8	66.6
8	---	---	---	---	---	---	---	---	---	66.6	69.2	66.7
9	---	---	---	---	---	---	---	---	---	66.6	68.6	66.8
10	---	---	---	---	---	---	---	---	---	66.3	68.5	66.8
11	---	---	---	---	---	---	---	---	---	66.3	68.5	66.9
12	---	---	---	---	---	---	---	---	---	66.0	68.6	67.1
13	---	---	---	---	---	---	---	---	---	66.1	68.4	67.1
14	---	---	---	---	---	---	---	---	---	65.8	68.2	66.1
15	---	---	---	---	---	---	---	---	---	65.4	67.9	65.2
16	---	---	---	---	---	---	---	---	---	65.3	67.5	64.9
17	---	---	---	---	---	---	---	---	---	65.4	67.7	64.6
18	---	---	---	---	---	---	---	---	---	65.7	67.6	64.2
19	---	---	---	---	---	---	---	---	---	65.8	67.4	64.0
20	---	---	---	---	---	---	---	---	---	66.0	66.9	63.5
21	---	---	---	---	---	---	---	---	---	65.8	66.7	63.0
22	---	---	---	---	---	---	---	---	---	65.4	66.6	62.9
23	---	---	---	---	---	---	---	---	---	65.4	66.9	62.4
24	---	---	---	---	---	---	---	---	---	65.8	66.6	61.7
25	---	---	---	---	---	---	---	---	---	66.2	66.2	61.1
26	---	---	---	---	---	---	---	---	---	66.3	66.0	61.0
27	---	---	---	---	---	---	---	---	---	66.4	65.8	60.7
28	---	---	---	---	---	---	---	---	64.6	66.3	65.7	60.4
29	---	---	---	---	---	---	---	---	65.0	66.2	65.9	60.3
30	---	---	---	---	---	---	---	---	65.3	66.4	65.8	60.4
31	---	---	---	---	---	---	---	---	---	66.9	65.4	---
MEAN	---	---	---	---	---	---	---	---	---	66.0	67.4	64.2
MAX	---	---	---	---	---	---	---	---	---	66.9	69.2	67.1
MIN	---	---	---	---	---	---	---	---	---	65.3	65.4	60.3


Average Daily Water Temperatures
Klamath River Below Copco Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
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14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1993

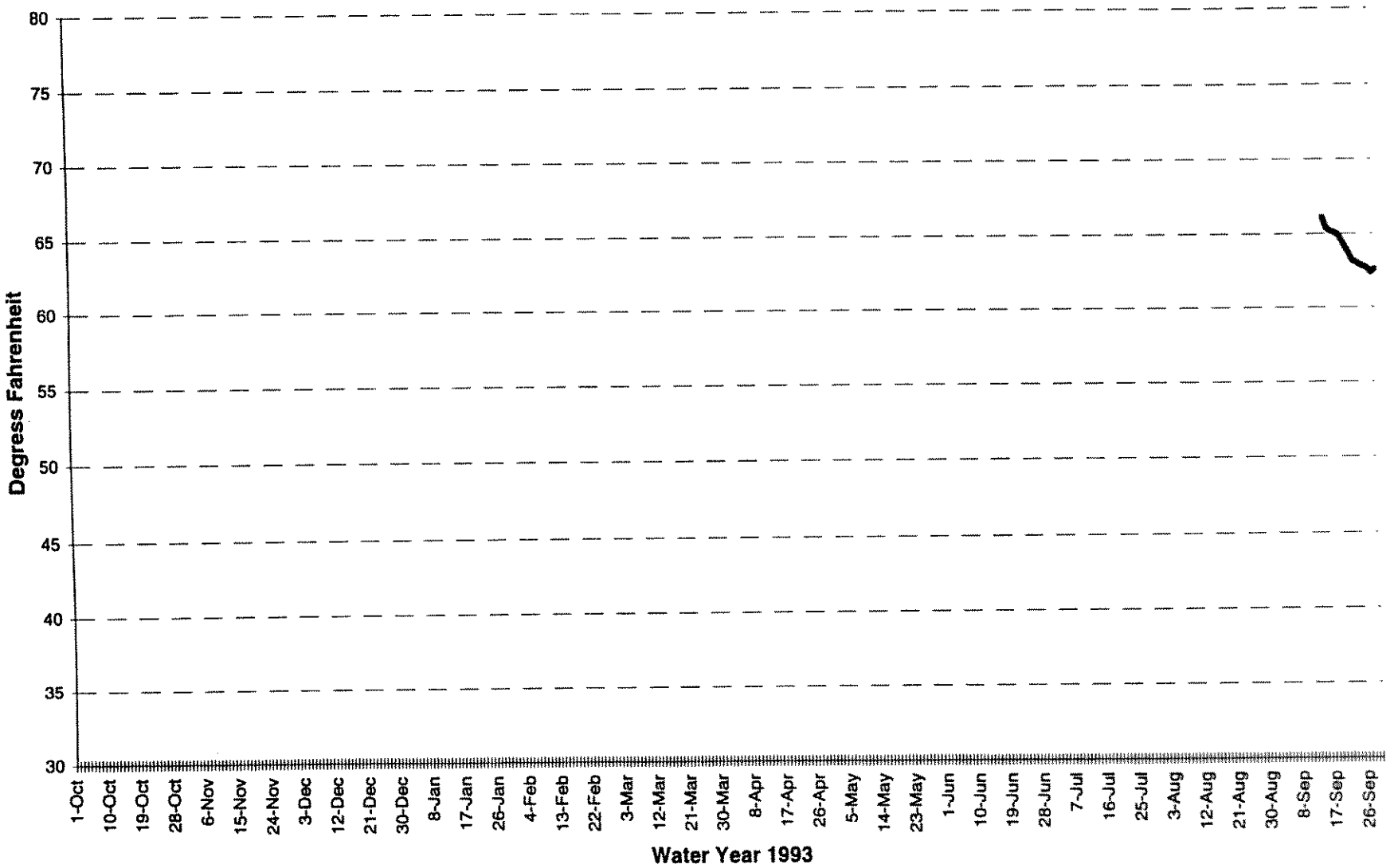
WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below Iron Gate Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	66.1
17	---	---	---	---	---	---	---	---	---	---	---	65.4
18	---	---	---	---	---	---	---	---	---	---	---	65.2
19	---	---	---	---	---	---	---	---	---	---	---	65.1
20	---	---	---	---	---	---	---	---	---	---	---	65.0
21	---	---	---	---	---	---	---	---	---	---	---	64.6
22	---	---	---	---	---	---	---	---	---	---	---	64.1
23	---	---	---	---	---	---	---	---	---	---	---	63.7
24	---	---	---	---	---	---	---	---	---	---	---	63.2
25	---	---	---	---	---	---	---	---	---	---	---	63.1
26	---	---	---	---	---	---	---	---	---	---	---	62.9
27	---	---	---	---	---	---	---	---	---	---	---	62.8
28	---	---	---	---	---	---	---	---	---	---	---	62.7
29	---	---	---	---	---	---	---	---	---	---	---	62.4
30	---	---	---	---	---	---	---	---	---	---	---	62.6
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

Average Daily Water Temperatures
Klamath River Below Iron Gate Dam

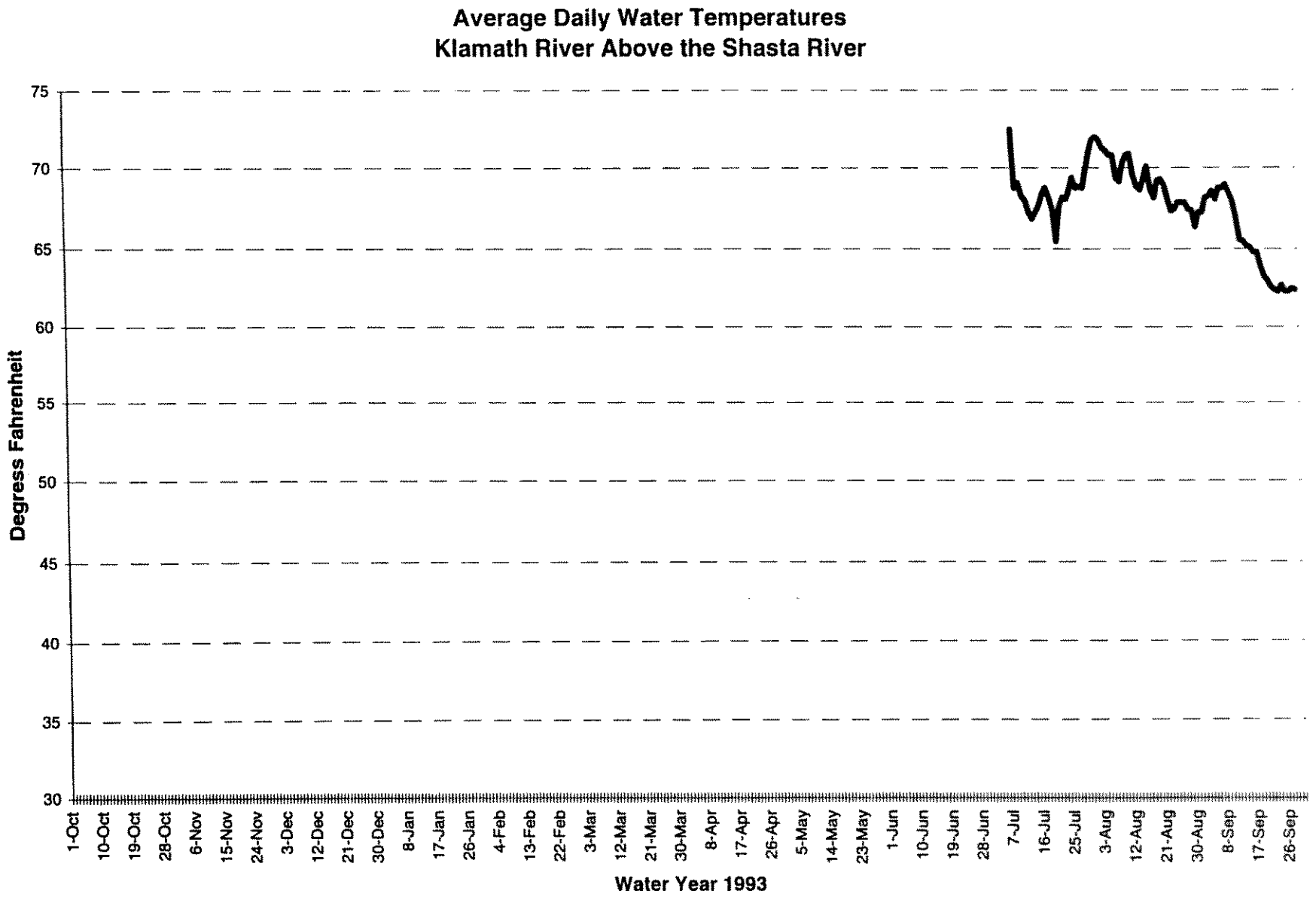


WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Above the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	70.9	66.4
2	---	---	---	---	---	---	---	---	---	---	71.8	67.3
3	---	---	---	---	---	---	---	---	---	---	72.0	67.3
4	---	---	---	---	---	---	---	---	---	---	71.8	68.2
5	---	---	---	---	---	---	---	---	---	---	71.3	68.3
6	---	---	---	---	---	---	---	---	---	---	71.1	68.6
7	---	---	---	---	---	---	---	---	---	---	70.8	68.1
8	---	---	---	---	---	---	---	---	---	---	70.8	68.8
9	---	---	---	---	---	---	---	---	---	72.5	69.4	68.8
10	---	---	---	---	---	---	---	---	---	68.8	69.2	69.0
11	---	---	---	---	---	---	---	---	---	69.1	70.3	68.5
12	---	---	---	---	---	---	---	---	---	68.3	70.8	68.0
13	---	---	---	---	---	---	---	---	---	68.0	70.9	66.9
14	---	---	---	---	---	---	---	---	---	67.3	69.6	65.6
15	---	---	---	---	---	---	---	---	---	66.9	68.9	65.5
16	---	---	---	---	---	---	---	---	---	67.3	68.7	65.2
17	---	---	---	---	---	---	---	---	---	67.7	69.3	65.1
18	---	---	---	---	---	---	---	---	---	68.4	70.1	64.8
19	---	---	---	---	---	---	---	---	---	68.8	68.7	64.8
20	---	---	---	---	---	---	---	---	---	68.2	68.2	64.0
21	---	---	---	---	---	---	---	---	---	67.5	69.2	63.3
22	---	---	---	---	---	---	---	---	---	65.5	69.3	63.0
23	---	---	---	---	---	---	---	---	---	67.6	69.0	62.6
24	---	---	---	---	---	---	---	---	---	68.2	68.1	62.4
25	---	---	---	---	---	---	---	---	---	68.1	67.4	62.3
26	---	---	---	---	---	---	---	---	---	68.7	67.5	62.7
27	---	---	---	---	---	---	---	---	---	69.4	67.9	62.3
28	---	---	---	---	---	---	---	---	---	68.8	67.9	62.3
29	---	---	---	---	---	---	---	---	---	68.9	67.9	62.5
30	---	---	---	---	---	---	---	---	---	68.8	67.5	62.4
31	---	---	---	---	---	---	---	---	---	69.8	67.4	---
MEAN	---	---	---	---	---	---	---	---	---	---	69.5	65.5
MAX	---	---	---	---	---	---	---	---	---	---	72.0	69.0
MIN	---	---	---	---	---	---	---	---	---	---	67.4	62.3


Average Daily Water Temperatures
Klamath River Above the Shasta River
Degress Fahrenheit
75
70
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4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
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14-May
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21-Aug
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8-Sep
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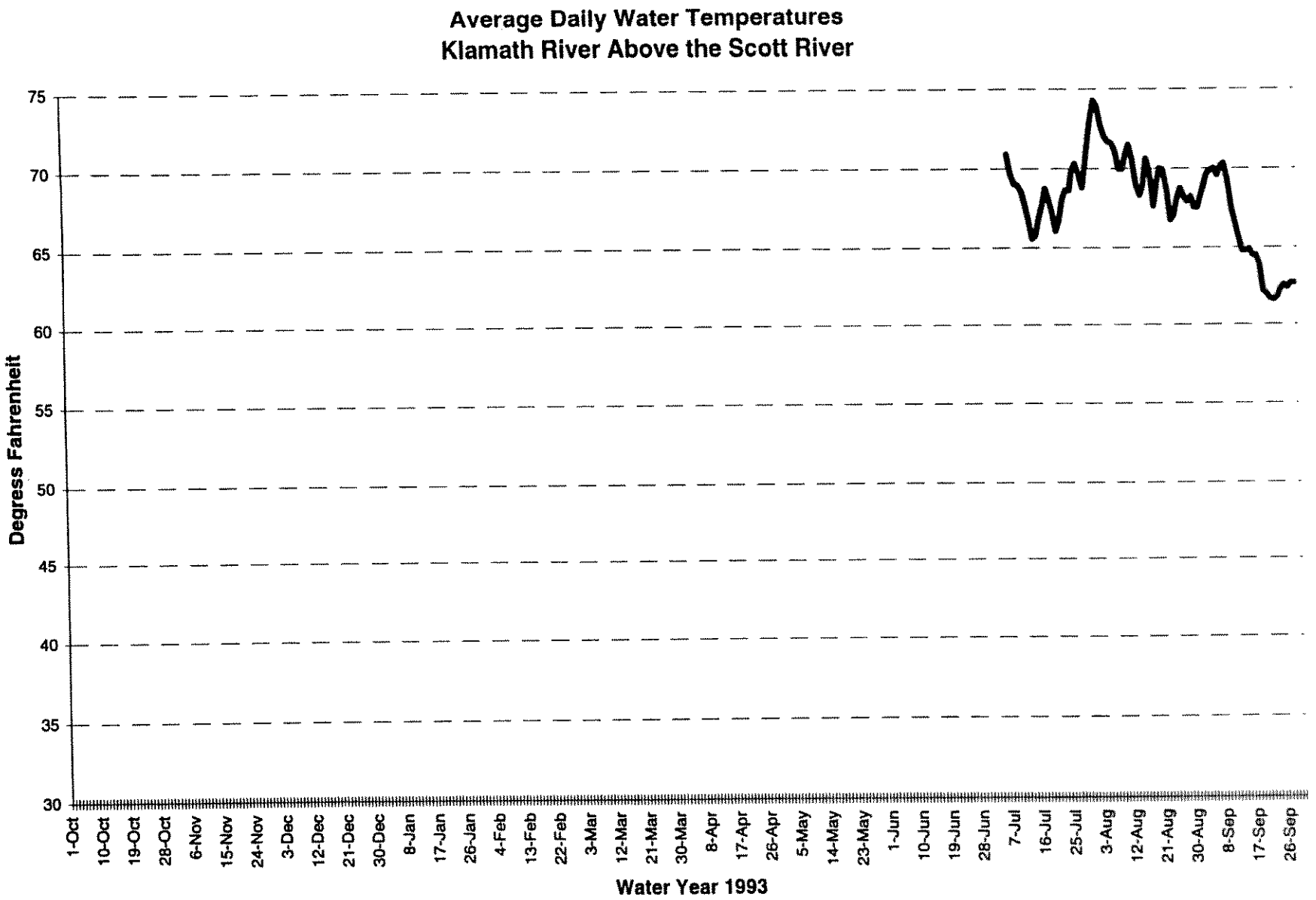
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Above the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	71.8	67.6
2	---	---	---	---	---	---	---	---	---	---	73.2	67.6
3	---	---	---	---	---	---	---	---	---	---	74.3	68.4
4	---	---	---	---	---	---	---	---	---	---	74.0	69.1
5	---	---	---	---	---	---	---	---	---	---	72.8	69.7
6	---	---	---	---	---	---	---	---	---	---	72.0	69.9
7	---	---	---	---	---	---	---	---	---	---	71.7	70.0
8	---	---	---	---	---	---	---	---	---	70.9	71.6	69.6
9	---	---	---	---	---	---	---	---	---	69.7	71.1	70.1
10	---	---	---	---	---	---	---	---	---	69.1	70.0	70.3
11	---	---	---	---	---	---	---	---	---	69.0	70.0	69.3
12	---	---	---	---	---	---	---	---	---	68.6	70.8	67.6
13	---	---	---	---	---	---	---	---	---	67.8	71.5	66.6
14	---	---	---	---	---	---	---	---	---	66.8	70.6	65.6
15	---	---	---	---	---	---	---	---	---	65.6	69.0	64.8
16	---	---	---	---	---	---	---	---	---	65.8	68.4	64.8
17	---	---	---	---	---	---	---	---	---	66.9	69.0	64.9
18	---	---	---	---	---	---	---	---	---	67.7	70.6	64.5
19	---	---	---	---	---	---	---	---	---	68.8	69.8	64.5
20	---	---	---	---	---	---	---	---	---	68.1	67.7	63.9
21	---	---	---	---	---	---	---	---	---	67.3	69.1	62.2
22	---	---	---	---	---	---	---	---	---	66.1	70.0	62.0
23	---	---	---	---	---	---	---	---	---	66.8	69.9	61.7
24	---	---	---	---	---	---	---	---	---	68.2	68.7	61.6
25	---	---	---	---	---	---	---	---	---	68.7	66.8	61.8
26	---	---	---	---	---	---	---	---	---	68.7	67.1	62.3
27	---	---	---	---	---	---	---	---	---	69.9	68.2	62.6
28	---	---	---	---	---	---	---	---	---	70.3	68.8	62.4
29	---	---	---	---	---	---	---	---	---	69.7	68.3	62.7
30	---	---	---	---	---	---	---	---	---	68.9	68.0	62.7
31	---	---	---	---	---	---	---	---	---	70.2	68.3	---
MEAN	---	---	---	---	---	---	---	---	---	---	70.1	65.7
MAX	---	---	---	---	---	---	---	---	---	---	74.3	70.3
MIN	---	---	---	---	---	---	---	---	---	---	66.8	61.6


Average Daily Water Temperatures
Klamath River Above the Scott River
Degress Fahrenheit
75
70
65
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55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
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4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
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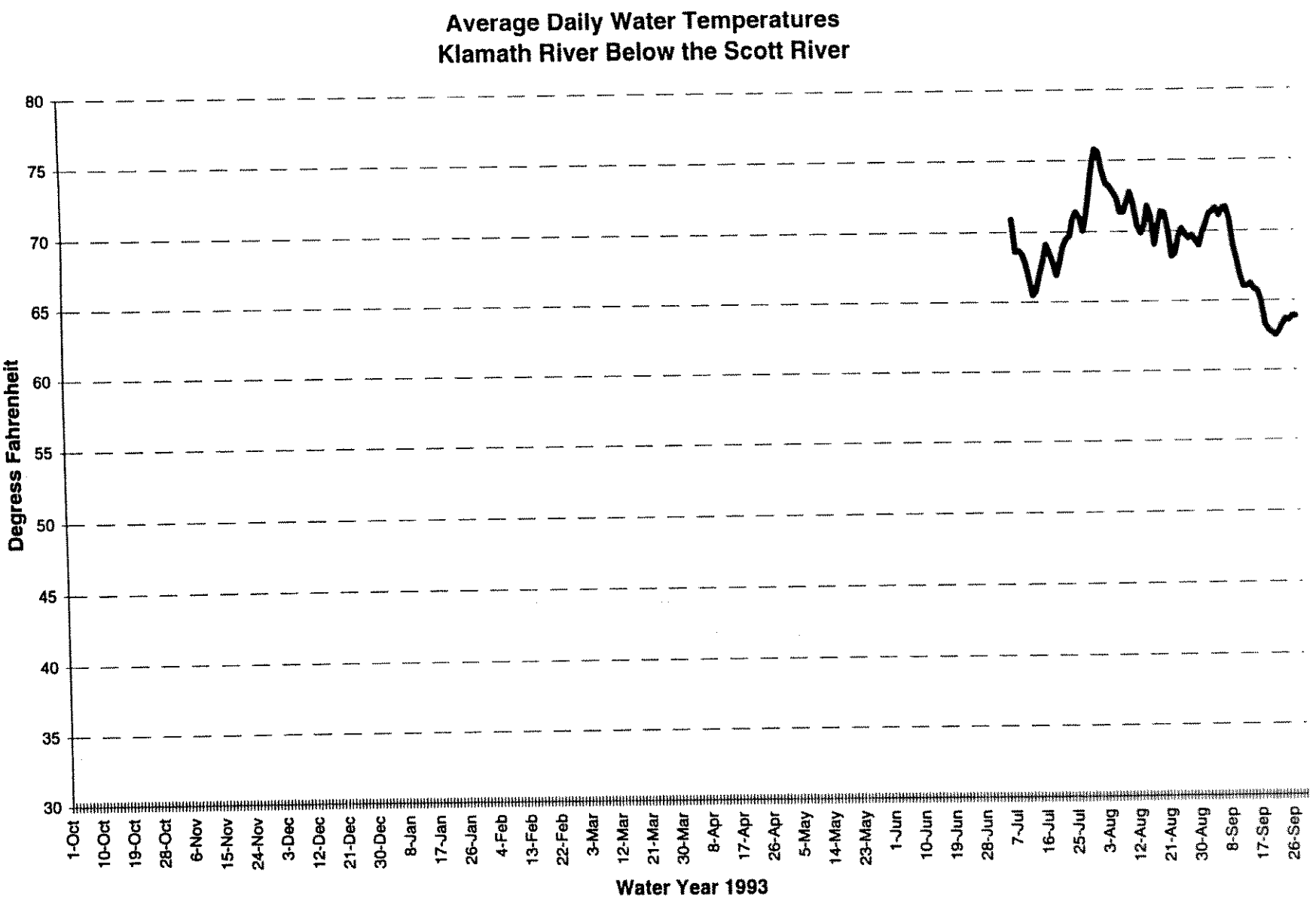
8-Sep
17-Sep
26-Sep
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	73.0	69.3
2	---	---	---	---	---	---	---	---	---	---	74.6	69.0
3	---	---	---	---	---	---	---	---	---	---	75.8	69.9
4	---	---	---	---	---	---	---	---	---	---	75.6	70.5
5	---	---	---	---	---	---	---	---	---	---	74.3	71.2
6	---	---	---	---	---	---	---	---	---	---	73.4	71.4
7	---	---	---	---	---	---	---	---	---	---	73.2	71.6
8	---	---	---	---	---	---	---	---	---	---	72.8	71.1
9	---	---	---	---	---	---	---	---	---	70.9	72.4	71.6
10	---	---	---	---	---	---	---	---	---	68.6	71.4	71.7
11	---	---	---	---	---	---	---	---	---	68.7	71.4	70.8
12	---	---	---	---	---	---	---	---	---	68.4	72.1	69.0
13	---	---	---	---	---	---	---	---	---	67.7	72.8	68.0
14	---	---	---	---	---	---	---	---	---	66.6	71.9	66.8
15	---	---	---	---	---	---	---	---	---	65.5	70.4	66.0
16	---	---	---	---	---	---	---	---	---	65.8	69.9	66.0
17	---	---	---	---	---	---	---	---	---	66.9	70.4	66.2
18	---	---	---	---	---	---	---	---	---	67.9	71.8	65.8
19	---	---	---	---	---	---	---	---	---	69.1	71.1	65.7
20	---	---	---	---	---	---	---	---	---	68.5	69.1	65.0
21	---	---	---	---	---	---	---	---	---	67.8	70.3	63.3
22	---	---	---	---	---	---	---	---	---	66.9	71.4	62.9
23	---	---	---	---	---	---	---	---	---	67.9	71.3	62.7
24	---	---	---	---	---	---	---	---	---	69.0	70.1	62.5
25	---	---	---	---	---	---	---	---	---	69.5	68.2	62.8
26	---	---	---	---	---	---	---	---	---	69.7	68.4	63.3
27	---	---	---	---	---	---	---	---	---	70.9	69.6	63.7
28	---	---	---	---	---	---	---	---	---	71.4	70.2	63.6
29	---	---	---	---	---	---	---	---	---	71.0	69.8	63.9
30	---	---	---	---	---	---	---	---	---	70.1	69.5	63.9
31	---	---	---	---	---	---	---	---	---	71.3	69.7	---
MEAN	---	---	---	---	---	---	---	---	---	---	71.5	67.0
MAX	---	---	---	---	---	---	---	---	---	---	75.8	71.7
MIN	---	---	---	---	---	---	---	---	---	---	68.2	62.5


Average Daily Water Temperatures
Klamath River Below the Scott River
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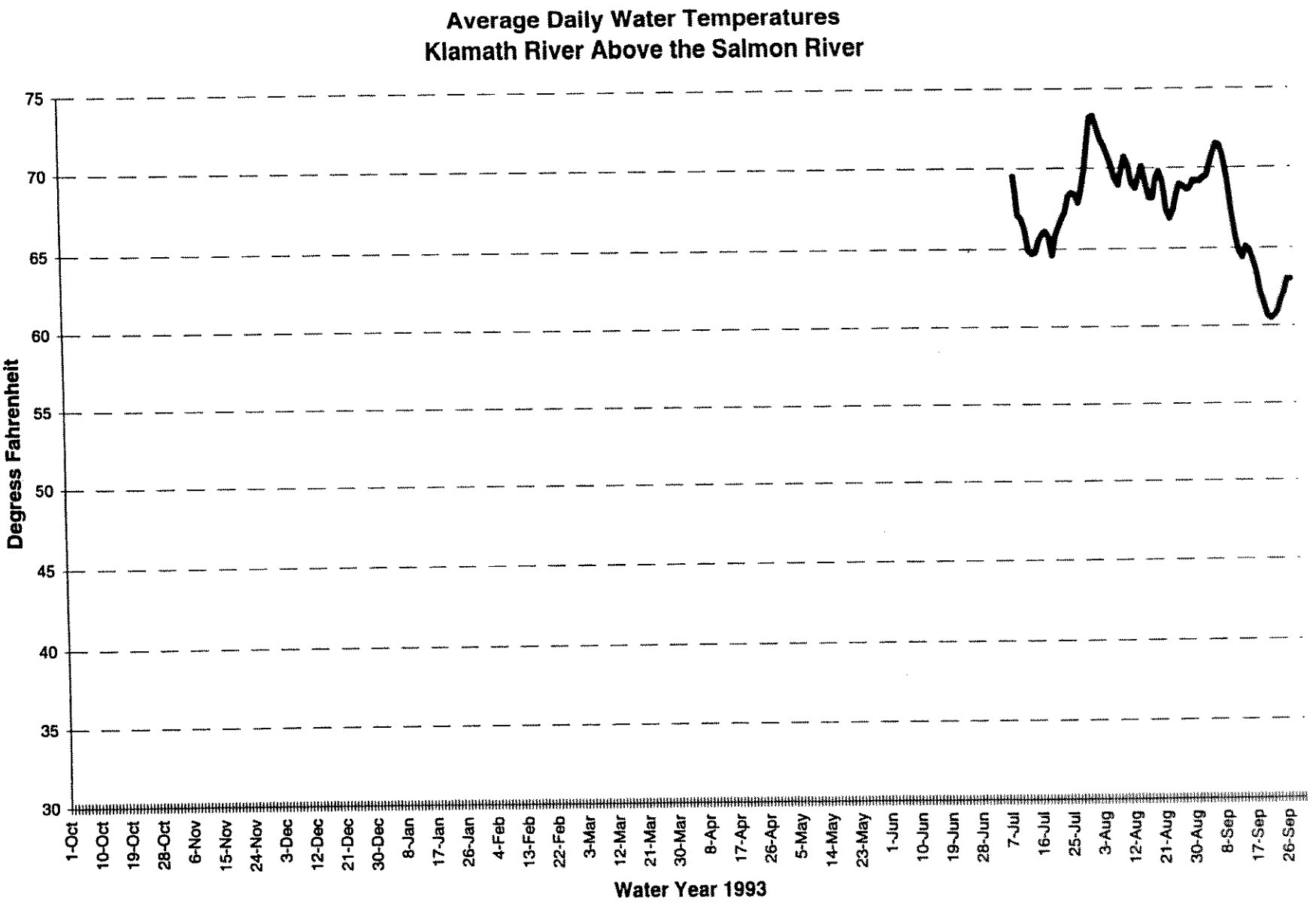
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Above the Salmon River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	69.8	68.8
2	---	---	---	---	---	---	---	---	---	---	71.5	69.2
3	---	---	---	---	---	---	---	---	---	---	73.2	69.2
4	---	---	---	---	---	---	---	---	---	---	73.3	69.2
5	---	---	---	---	---	---	---	---	---	---	72.6	69.4
6	---	---	---	---	---	---	---	---	---	---	71.8	69.5
7	---	---	---	---	---	---	---	---	---	---	71.4	70.2
8	---	---	---	---	---	---	---	---	---	---	70.8	70.9
9	---	---	---	---	---	---	---	---	---	---	70.2	71.5
10	---	---	---	---	---	---	---	---	---	---	69.4	71.4
11	---	---	---	---	---	---	---	---	---	69.5	69.0	70.7
12	---	---	---	---	---	---	---	---	---	67.1	69.9	69.4
13	---	---	---	---	---	---	---	---	---	66.9	70.7	67.3
14	---	---	---	---	---	---	---	---	---	66.2	70.2	65.8
15	---	---	---	---	---	---	---	---	---	64.9	69.1	64.8
16	---	---	---	---	---	---	---	---	---	64.7	68.8	64.4
17	---	---	---	---	---	---	---	---	---	64.8	69.4	65.1
18	---	---	---	---	---	---	---	---	---	65.5	70.1	64.9
19	---	---	---	---	---	---	---	---	---	65.9	69.1	64.3
20	---	---	---	---	---	---	---	---	---	66.1	68.2	63.5
21	---	---	---	---	---	---	---	---	---	65.8	68.2	62.2
22	---	---	---	---	---	---	---	---	---	64.6	69.3	61.5
23	---	---	---	---	---	---	---	---	---	65.8	69.8	60.7
24	---	---	---	---	---	---	---	---	---	66.4	69.2	60.5
25	---	---	---	---	---	---	---	---	---	66.9	67.4	60.7
26	---	---	---	---	---	---	---	---	---	67.3	66.9	61.0
27	---	---	---	---	---	---	---	---	---	68.3	67.4	61.7
28	---	---	---	---	---	---	---	---	---	68.5	68.4	62.2
29	---	---	---	---	---	---	---	---	---	68.4	69.0	63.0
30	---	---	---	---	---	---	---	---	---	67.9	68.9	63.0
31	---	---	---	---	---	---	---	---	---	68.8	68.7	---
MEAN	---	---	---	---	---	---	---	---	---	---	69.7	65.9
MAX	---	---	---	---	---	---	---	---	---	---	73.3	71.5
MIN	---	---	---	---	---	---	---	---	---	---	66.9	60.5


Average Daily Water Temperatures
Klamath River Above the Salmon River
Degress Fahrenheit
75
70
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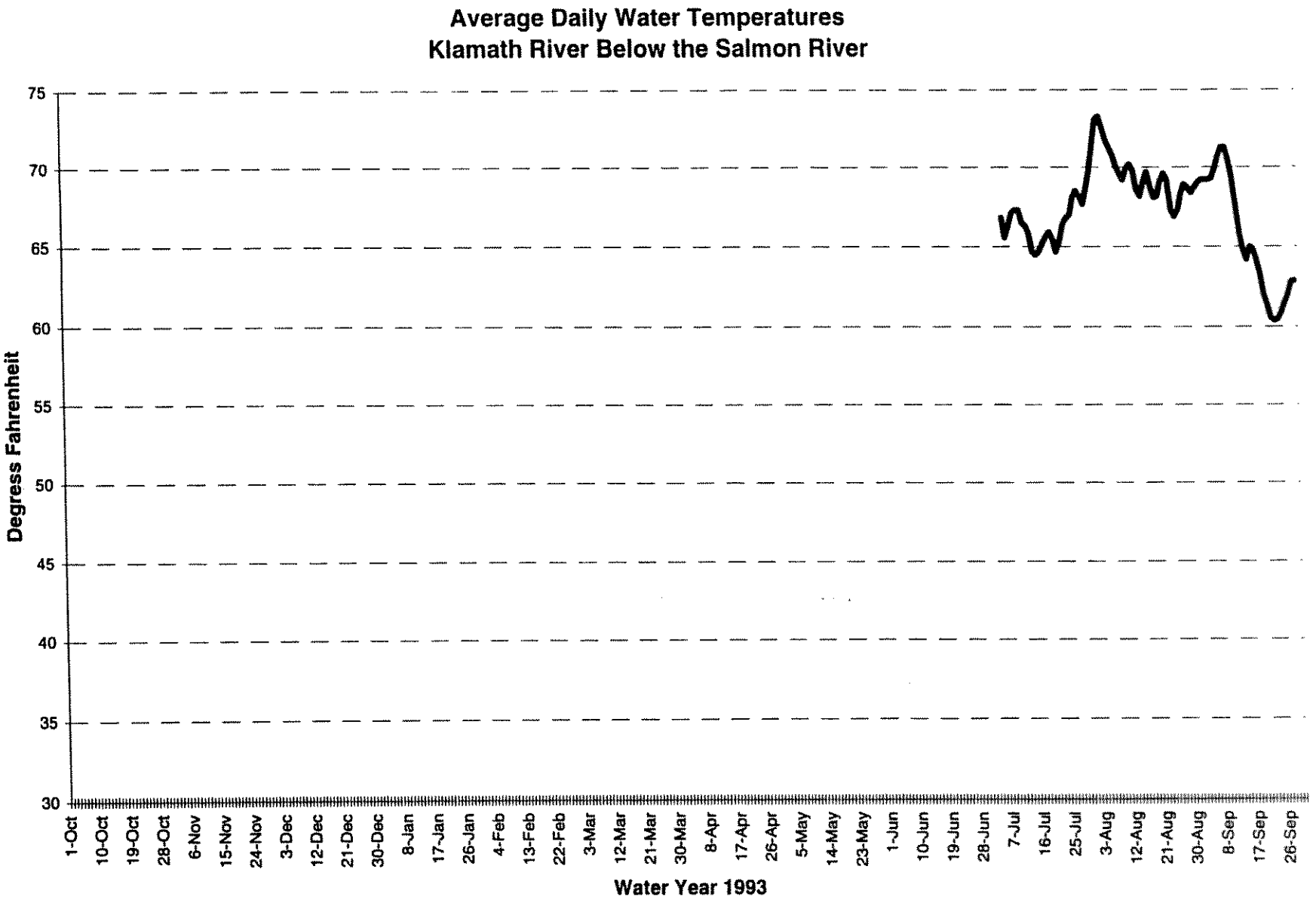
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River Below the Salmon River
Humboldt County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	69.7	68.7
2	---	---	---	---	---	---	---	---	---	---	71.4	69.0
3	---	---	---	---	---	---	---	---	---	---	73.1	69.2
4	---	---	---	---	---	---	---	---	---	---	73.3	69.2
5	---	---	---	---	---	---	---	---	---	---	72.6	69.2
6	---	---	---	---	---	---	---	---	---	66.8	71.8	69.3
7	---	---	---	---	---	---	---	---	---	65.6	71.3	69.9
8	---	---	---	---	---	---	---	---	---	66.3	70.8	70.7
9	---	---	---	---	---	---	---	---	---	67.1	70.1	71.3
10	---	---	---	---	---	---	---	---	---	67.3	69.6	71.3
11	---	---	---	---	---	---	---	---	---	67.3	69.2	70.5
12	---	---	---	---	---	---	---	---	---	66.5	69.9	69.4
13	---	---	---	---	---	---	---	---	---	66.3	70.2	67.4
14	---	---	---	---	---	---	---	---	---	65.8	69.8	65.8
15	---	---	---	---	---	---	---	---	---	64.7	68.6	64.8
16	---	---	---	---	---	---	---	---	---	64.5	68.2	64.2
17	---	---	---	---	---	---	---	---	---	64.7	69.0	65.0
18	---	---	---	---	---	---	---	---	---	65.2	69.7	64.8
19	---	---	---	---	---	---	---	---	---	65.6	68.8	64.1
20	---	---	---	---	---	---	---	---	---	65.9	68.1	63.3
21	---	---	---	---	---	---	---	---	---	65.5	68.2	62.1
22	---	---	---	---	---	---	---	---	---	64.7	69.1	61.4
23	---	---	---	---	---	---	---	---	---	65.3	69.6	60.6
24	---	---	---	---	---	---	---	---	---	66.4	69.2	60.4
25	---	---	---	---	---	---	---	---	---	66.8	67.3	60.5
26	---	---	---	---	---	---	---	---	---	67.0	66.9	60.9
27	---	---	---	---	---	---	---	---	---	68.1	67.3	61.5
28	---	---	---	---	---	---	---	---	---	68.5	68.3	62.0
29	---	---	---	---	---	---	---	---	---	68.2	68.9	62.8
30	---	---	---	---	---	---	---	---	---	67.7	68.7	62.9
31	---	---	---	---	---	---	---	---	---	68.6	68.4	---
MEAN	---	---	---	---	---	---	---	---	---	---	69.6	65.8
MAX	---	---	---	---	---	---	---	---	---	---	73.3	71.3
MIN	---	---	---	---	---	---	---	---	---	---	66.9	60.4


Average Daily Water Temperatures
Klamath River Below the Salmon River
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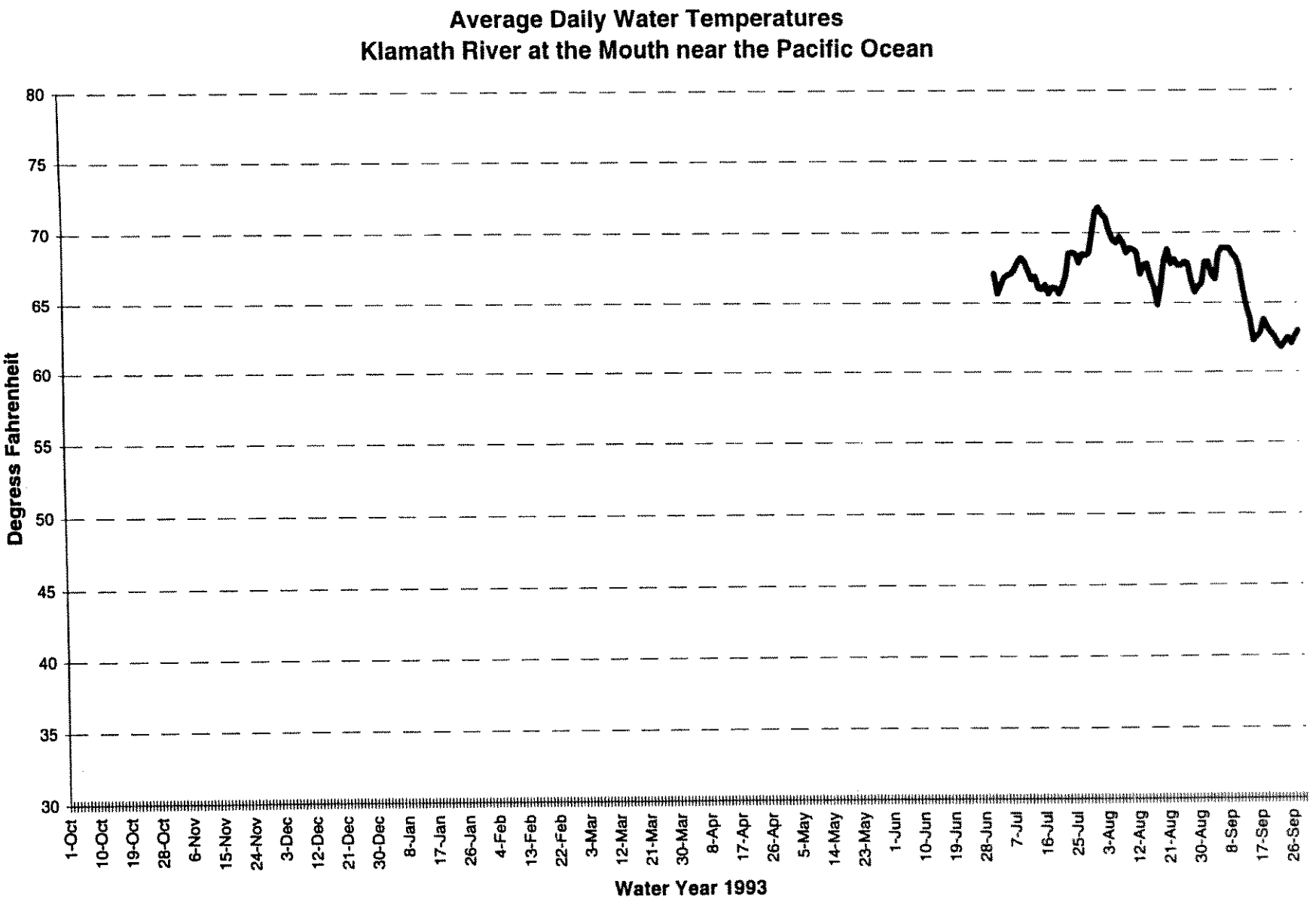
Water Year 1993

WATER YEAR - 1993

Water Temperatures, Klamath River Basin
Klamath River at the Mouth near the Pacific Ocean
Del Norte County California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1992 to September 1993
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	70.1	66.2
2	---	---	---	---	---	---	---	---	---	---	71.5	66.4
3	---	---	---	---	---	---	---	---	---	67.1	71.8	67.9
4	---	---	---	---	---	---	---	---	---	65.7	71.3	67.9
5	---	---	---	---	---	---	---	---	---	66.3	71.1	67.0
6	---	---	---	---	---	---	---	---	---	66.8	70.1	66.7
7	---	---	---	---	---	---	---	---	---	67.0	69.5	68.5
8	---	---	---	---	---	---	---	---	---	67.1	69.3	68.9
9	---	---	---	---	---	---	---	---	---	67.4	69.7	68.9
10	---	---	---	---	---	---	---	---	---	67.9	69.3	68.9
11	---	---	---	---	---	---	---	---	---	68.2	68.6	68.5
12	---	---	---	---	---	---	---	---	---	67.9	68.9	68.2
13	---	---	---	---	---	---	---	---	---	67.3	68.8	67.6
14	---	---	---	---	---	---	---	---	---	66.7	68.6	66.1
15	---	---	---	---	---	---	---	---	---	66.9	67.1	64.8
16	---	---	---	---	---	---	---	---	---	66.1	67.7	63.9
17	---	---	---	---	---	---	---	---	---	66.0	67.8	62.3
18	---	---	---	---	---	---	---	---	---	66.3	66.8	62.6
19	---	---	---	---	---	---	---	---	---	65.7	66.2	62.9
20	---	---	---	---	---	---	---	---	---	66.1	64.9	63.8
21	---	---	---	---	---	---	---	---	---	66.1	66.2	63.3
22	---	---	---	---	---	---	---	---	---	65.7	68.0	62.9
23	---	---	---	---	---	---	---	---	---	66.2	68.8	62.6
24	---	---	---	---	---	---	---	---	---	66.9	67.8	62.1
25	---	---	---	---	---	---	---	---	---	68.5	68.1	61.8
26	---	---	---	---	---	---	---	---	---	68.6	67.7	62.2
27	---	---	---	---	---	---	---	---	---	68.5	67.7	62.5
28	---	---	---	---	---	---	---	---	---	67.9	67.9	62.1
29	---	---	---	---	---	---	---	---	---	68.5	67.8	62.6
30	---	---	---	---	---	---	---	---	---	68.4	66.6	63.0
31	---	---	---	---	---	---	---	---	---	68.6	65.8	---
MEAN	---	---	---	---	---	---	---	---	---	---	68.4	65.1
MAX	---	---	---	---	---	---	---	---	---	---	71.8	68.9
MIN	---	---	---	---	---	---	---	---	---	---	64.9	61.8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Klamath River at the Mouth near the Pacific Ocean
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28-Jun
7-Jul
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3-Aug
12-Aug
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17-Sep
26-Sep
Water Year 1993

Appendix B

Water Temperature Monitoring of the Klamath River Mainstem

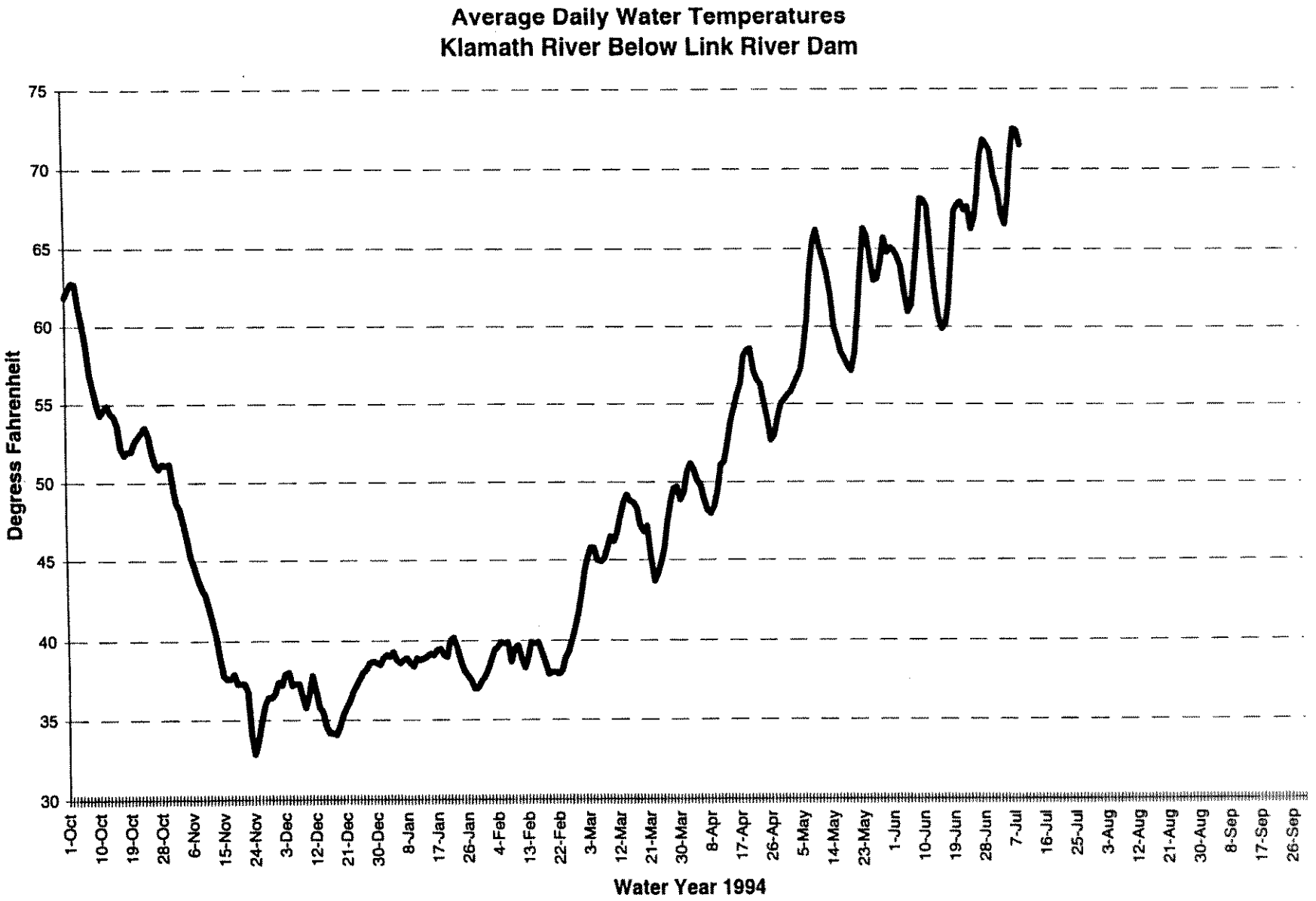
1994 Water Year

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below Link River Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.9	49.9	37.4	38.9	38.2	42.8	49.4	55.3	64.8	71.5	---	---
2	62.4	48.7	37.2	39.1	38.8	44.2	50.7	55.6	65.1	71.1	---	---
3	62.8	48.3	37.9	39.0	39.4	45.1	51.2	55.8	64.9	69.6	---	---
4	62.7	47.4	38.0	39.3	39.6	45.8	50.8	56.3	64.5	68.8	---	---
5	61.2	46.4	37.2	38.8	39.9	45.8	50.1	56.8	63.9	67.2	---	---
6	60.0	45.2	37.3	38.6	39.8	45.0	49.8	57.3	62.3	66.6	---	---
7	58.7	44.6	37.3	38.8	39.9	44.9	48.9	58.8	61.0	68.3	---	---
8	56.9	43.9	36.5	38.9	38.7	45.1	48.2	60.6	61.4	70.8	---	---
9	55.9	43.3	35.8	38.6	39.5	45.8	48.0	63.7	63.5	72.5	---	---
10	55.0	42.9	36.6	38.4	39.7	46.5	48.5	65.5	65.8	72.4	---	---
11	54.3	42.1	37.8	38.9	38.9	46.2	49.5	66.2	68.2	71.5	---	---
12	54.6	41.2	36.8	38.8	38.3	46.8	51.1	65.2	68.1	---	---	---
13	54.9	40.3	35.8	38.9	39.0	47.8	51.3	64.4	67.7	---	---	---
14	54.4	38.9	35.5	39.0	39.9	48.7	52.4	63.5	64.6	---	---	---
15	54.2	37.8	34.6	39.2	39.8	49.2	53.8	62.2	62.4	---	---	---
16	53.6	37.6	34.2	39.1	39.9	48.8	54.7	60.0	60.7	---	---	---
17	52.2	37.6	34.2	39.4	39.3	48.7	55.6	59.3	59.9	---	---	---
18	51.8	37.9	34.1	39.5	38.6	48.3	56.3	58.4	60.2	---	---	---
19	52.0	37.3	34.6	39.1	37.9	47.2	58.1	58.0	61.6	---	---	---
20	52.0	37.3	35.3	39.0	38.0	46.8	58.5	57.5	64.7	---	---	---
21	52.6	37.3	35.8	40.0	38.0	47.2	58.6	57.2	67.4	---	---	---
22	52.9	36.8	36.2	40.2	37.9	45.1	57.2	58.3	67.8	---	---	---
23	53.2	34.2	36.8	39.6	38.1	43.7	56.6	60.8	68.0	---	---	---
24	53.5	32.9	37.2	38.7	38.9	44.2	56.3	63.7	67.5	---	---	---
25	53.0	33.7	37.6	38.1	39.3	44.9	55.1	66.3	67.7	---	---	---
26	51.9	35.0	38.0	37.8	40.0	45.8	54.1	65.9	66.3	---	---	---
27	51.2	36.0	38.2	37.5	40.8	47.4	52.7	64.4	67.0	---	---	---
28	50.9	36.4	38.6	37.0	41.7	48.7	53.0	63.0	68.6	---	---	---
29	51.2	36.4	38.7	37.0	---	49.6	54.1	63.1	70.8	---	---	---
30	51.1	36.7	38.6	37.4	---	49.7	55.0	64.1	71.8	---	---	---
31	51.2	---	38.5	37.7	---	48.9	---	65.7	---	---	---	---
MEAN	55.0	40.1	36.7	38.7	39.2	46.6	53.0	61.1	65.3	---	---	---
MAX	62.8	49.9	38.7	40.2	41.7	49.7	58.6	66.3	71.8	---	---	---
MIN	50.9	32.9	34.1	37.0	37.9	42.8	48.0	55.3	59.9	---	---	---

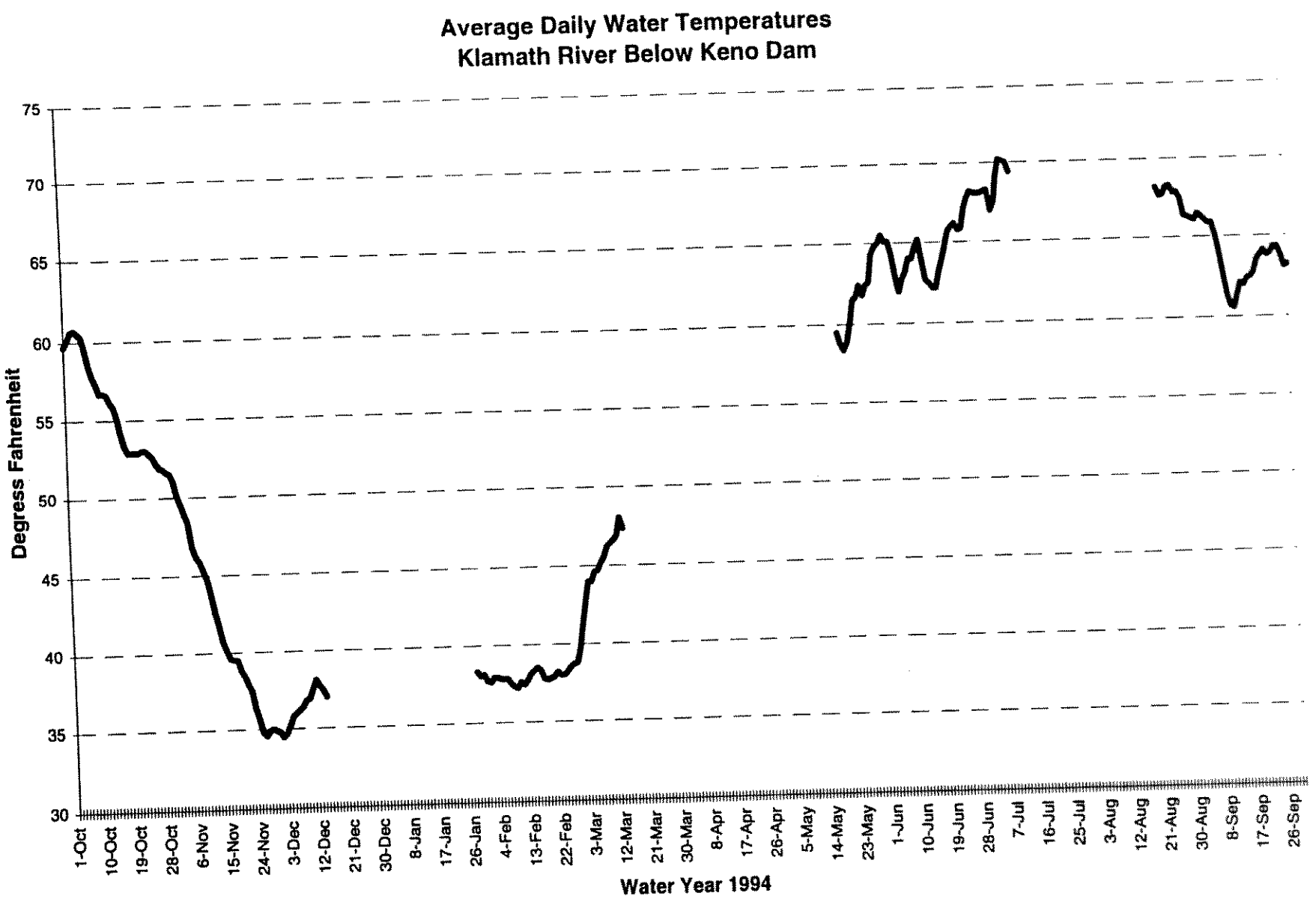

Average Daily Water Temperatures
Klamath River Below Link River Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below Keno Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.7	51.0	34.5	---	37.6	41.3	---	---	65.0	68.1	---	66.3
2	60.1	50.1	34.7	---	37.9	42.7	---	---	65.5	68.1	---	66.2
3	60.6	49.5	35.2	---	37.9	44.0	---	---	65.1	68.2	---	66.1
4	60.7	48.9	35.8	---	37.8	44.0	---	---	65.1	68.3	---	66.5
5	60.5	48.3	36.0	---	37.8	44.6	---	---	64.3	67.0	---	66.3
6	60.3	46.8	36.2	---	37.8	44.7	---	---	63.0	67.5	---	66.1
7	59.5	46.2	36.4	---	37.5	45.2	---	---	62.0	69.1	---	65.9
8	58.5	45.9	36.8	---	37.3	45.6	---	---	62.8	70.2	---	65.9
9	57.8	45.3	36.9	---	37.2	46.2	---	---	63.2	70.1	---	65.1
10	57.3	44.7	37.5	---	37.6	46.4	---	---	64.0	70.0	---	64.0
11	56.7	43.7	38.1	---	37.4	46.6	---	---	64.0	69.4	---	62.7
12	56.7	42.6	37.7	---	37.7	46.9	---	---	64.7	---	---	61.4
13	56.6	41.7	37.4	---	38.1	48.0	---	---	65.2	---	---	60.7
14	56.1	40.7	37.0	---	38.3	47.3	---	---	63.9	---	---	60.6
15	55.8	40.1	---	---	38.5	---	---	---	62.7	---	---	61.4
16	55.1	39.6	---	---	38.3	---	---	---	62.5	---	---	62.1
17	54.1	39.5	---	---	37.8	---	---	---	62.2	---	---	62.0
18	53.3	39.5	---	---	37.7	---	---	---	62.2	---	---	62.4
19	52.9	38.8	---	---	37.8	---	---	59.5	63.2	---	---	62.5
20	52.9	38.4	---	---	37.9	---	---	58.8	63.9	---	---	62.8
21	52.9	37.9	---	---	38.2	---	---	58.4	64.8	---	---	63.5
22	52.9	37.4	---	---	38.0	---	---	58.9	65.7	---	---	63.8
23	53.0	36.3	---	---	38.0	---	---	60.1	66.0	---	68.2	64.1
24	53.0	35.6	---	---	38.2	---	---	61.5	66.2	---	67.7	63.8
25	52.8	34.8	---	---	38.5	---	---	61.7	65.8	---	67.8	63.9
26	52.6	34.6	---	---	38.7	---	---	62.4	65.9	---	68.2	64.3
27	52.2	34.9	---	---	38.8	---	---	61.8	67.1	---	68.3	64.3
28	51.9	35.0	---	38.3	39.8	---	---	62.4	67.8	---	67.9	63.8
29	51.8	34.9	---	38.0	---	---	---	62.6	68.2	---	67.9	63.1
30	51.6	34.8	---	38.1	---	---	---	64.3	68.1	---	67.5	63.2
31	51.5	---	---	37.7	---	---	---	64.8	---	---	66.4	---
MEAN	55.5	41.3	---	---	38.0	---	---	---	64.7	---	---	63.8
MAX	60.7	51.0	---	---	39.8	---	---	---	68.2	---	---	66.5
MIN	51.5	34.6	---	---	37.2	---	---	---	62.0	---	---	60.6

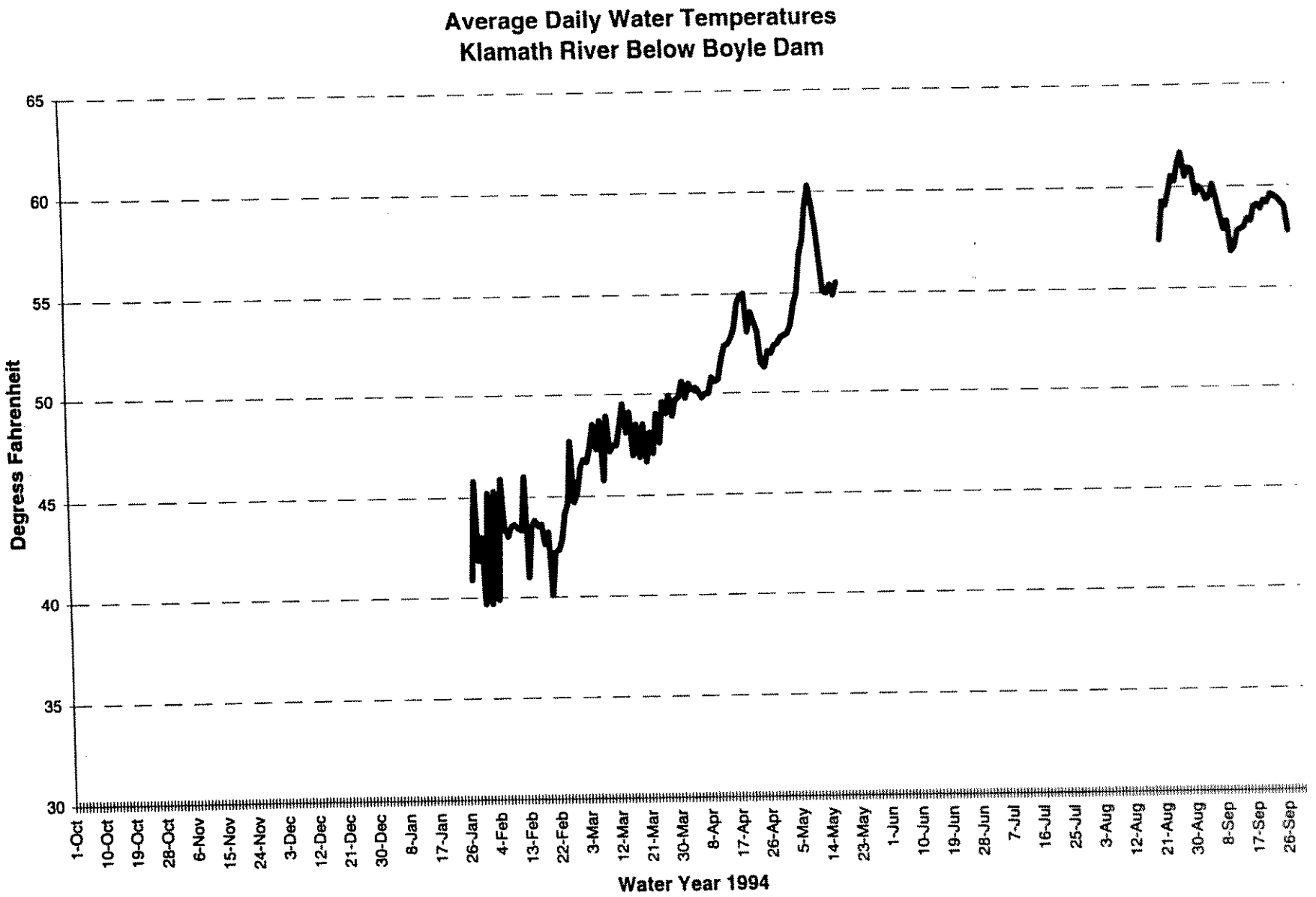

Average Daily Water Temperatures
Klamath River Below Keno Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below Boyle Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	39.7	45.2	49.8	52.5	---	---	---	60.9
2	---	---	---	---	45.2	46.4	50.6	52.8	---	---	---	60.8
3	---	---	---	---	39.7	46.8	49.8	52.9	---	---	---	59.7
4	---	---	---	---	45.3	46.7	50.5	53.0	---	---	---	60.0
5	---	---	---	---	39.9	47.4	50.2	53.4	---	---	---	59.8
6	---	---	---	---	45.9	48.5	50.3	54.4	---	---	---	59.4
7	---	---	---	---	43.4	47.3	50.1	55.0	---	---	---	59.5
8	---	---	---	---	43.0	48.7	49.8	56.9	---	---	---	60.1
9	---	---	---	---	43.5	45.8	50.0	57.6	---	---	---	59.4
10	---	---	---	---	43.6	48.9	50.0	59.4	---	---	---	58.6
11	---	---	---	---	43.4	47.2	50.8	60.3	---	---	---	57.9
12	---	---	---	---	43.3	47.5	50.6	59.3	---	---	---	58.3
13	---	---	---	---	46.0	47.5	50.7	58.1	---	---	---	56.8
14	---	---	---	---	41.0	48.4	51.7	56.5	---	---	---	57.0
15	---	---	---	---	43.5	49.5	52.4	55.1	---	---	---	57.8
16	---	---	---	---	43.8	48.1	52.5	55.0	---	---	---	57.9
17	---	---	---	---	43.5	49.1	52.8	55.4	---	---	---	58.0
18	---	---	---	---	43.6	47.0	53.3	54.9	---	---	---	58.4
19	---	---	---	---	42.6	48.5	54.5	55.5	---	---	---	58.3
20	---	---	---	---	43.2	46.9	54.9	---	---	---	---	59.0
21	---	---	---	---	40.1	48.5	55.0	---	---	---	---	59.1
22	---	---	---	---	42.2	46.7	53.1	---	---	---	---	58.9
23	---	---	---	---	42.3	48.1	54.1	---	---	---	57.4	59.3
24	---	---	---	---	42.8	47.1	53.6	---	---	---	59.3	59.2
25	---	---	---	---	44.1	49.0	53.1	---	---	---	59.1	59.6
26	---	---	---	---	44.6	47.6	51.5	---	---	---	59.8	59.5
27	---	---	---	---	47.7	49.6	51.3	---	---	---	60.5	59.4
28	---	---	---	40.9	44.7	49.0	52.1	---	---	---	60.3	59.2
29	---	---	---	45.8	---	49.9	52.0	---	---	---	61.1	59.0
30	---	---	---	41.8	---	48.9	52.4	---	---	---	61.6	57.8
31	---	---	---	43.0	---	49.7	---	---	---	---	60.5	---
MEAN	---	---	---	---	43.3	47.9	51.8	---	---	---	---	59.0
MAX	---	---	---	---	47.7	49.9	55.0	---	---	---	---	60.9
MIN	---	---	---	---	39.7	45.2	49.8	---	---	---	---	56.8

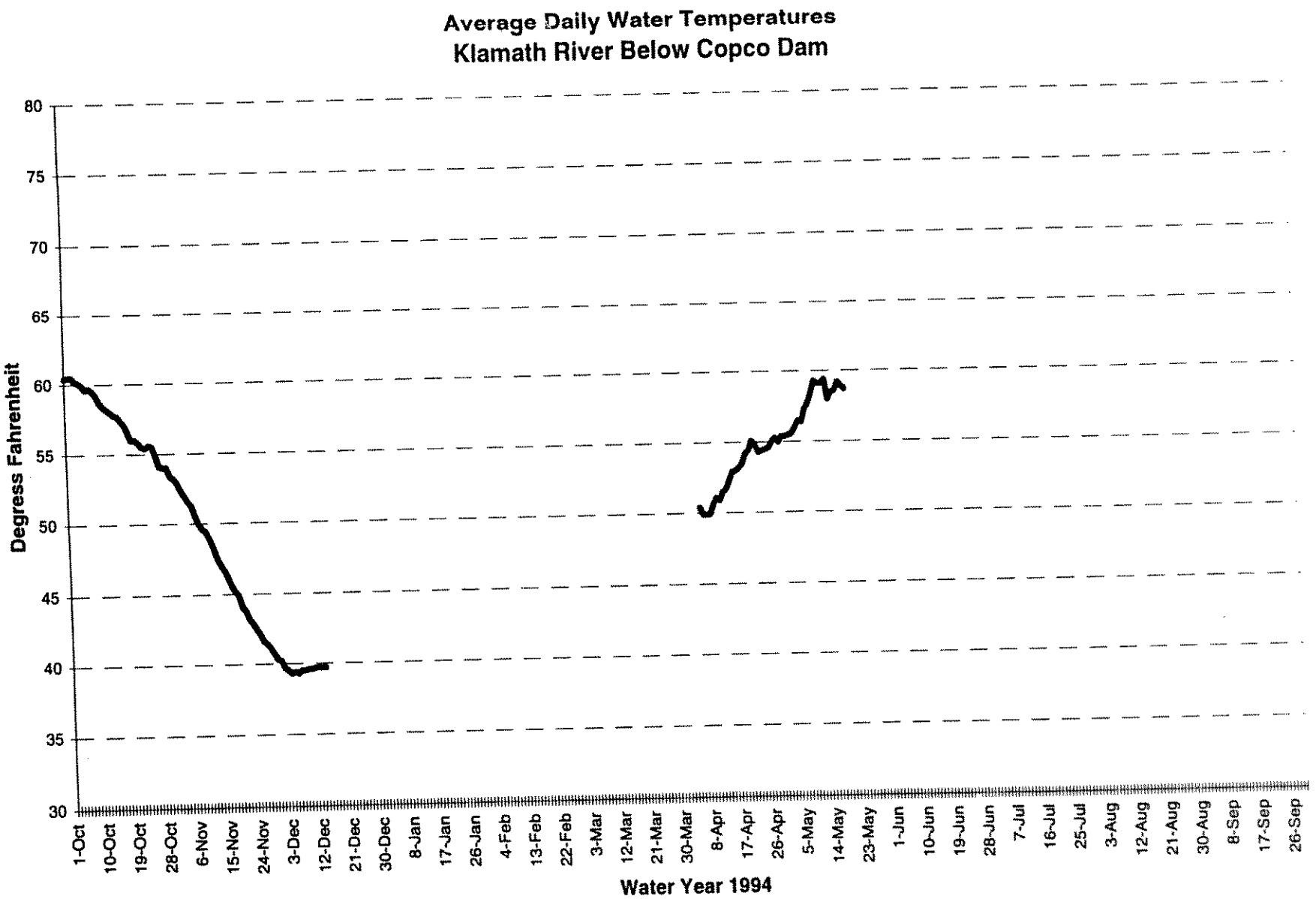

Average Daily Water Temperatures
Klamath River Below Boyle Dam
Degress Fahrenheit
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below Copco Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.4	53.2	40.2	---	---	---	---	55.4	---	---	---	---
2	60.5	52.9	39.7	---	---	---	---	55.4	---	---	---	---
3	60.5	52.4	39.5	---	---	---	---	55.5	---	---	---	---
4	60.2	52.0	39.3	---	---	---	---	55.6	---	---	---	---
5	60.1	51.6	39.4	---	---	---	---	56.0	---	---	---	---
6	59.9	51.3	39.3	---	---	---	50.4	56.5	---	---	---	---
7	59.6	50.6	39.5	---	---	---	49.9	56.4	---	---	---	---
8	59.7	50.0	39.5	---	---	---	49.9	57.3	---	---	---	---
9	59.5	49.6	39.6	---	---	---	49.9	57.7	---	---	---	---
10	59.2	49.4	39.6	---	---	---	50.6	58.4	---	---	---	---
11	58.7	48.9	39.7	---	---	---	51.1	59.3	---	---	---	---
12	58.4	48.3	39.7	---	---	---	50.9	59.1	---	---	---	---
13	58.2	47.6	39.7	---	---	---	51.5	59.1	---	---	---	---
14	58.0	47.1	39.7	---	---	---	51.7	59.4	---	---	---	---
15	57.8	46.7	---	---	---	---	52.3	58.0	---	---	---	---
16	57.7	46.2	---	---	---	---	52.9	58.5	---	---	---	---
17	57.4	45.6	---	---	---	---	53.0	58.6	---	---	---	---
18	57.1	45.2	---	---	---	---	53.2	59.2	---	---	---	---
19	56.6	44.9	---	---	---	---	53.5	58.9	---	---	---	---
20	56.0	44.1	---	---	---	---	54.2	58.7	---	---	---	---
21	56.0	43.8	---	---	---	---	54.4	---	---	---	---	---
22	55.8	43.2	---	---	---	---	55.1	---	---	---	---	---
23	55.5	42.9	---	---	---	---	54.8	---	---	---	---	---
24	55.4	42.5	---	---	---	---	54.3	---	---	---	---	---
25	55.6	42.1	---	---	---	---	54.4	---	---	---	---	---
26	55.5	41.6	---	---	---	---	54.5	---	---	---	---	---
27	54.8	41.4	---	---	---	---	54.6	---	---	---	---	---
28	54.1	41.1	---	---	---	---	55.0	---	---	---	---	---
29	54.0	40.7	---	---	---	---	55.3	---	---	---	---	---
30	54.0	40.3	---	---	---	---	55.0	---	---	---	---	---
31	53.4	---	---	---	---	---	---	---	---	---	---	---
MEAN	57.4	46.6	---	---	---	---	---	---	---	---	---	---
MAX	60.5	53.2	---	---	---	---	---	---	---	---	---	---
MIN	53.4	40.3	---	---	---	---	---	---	---	---	---	---

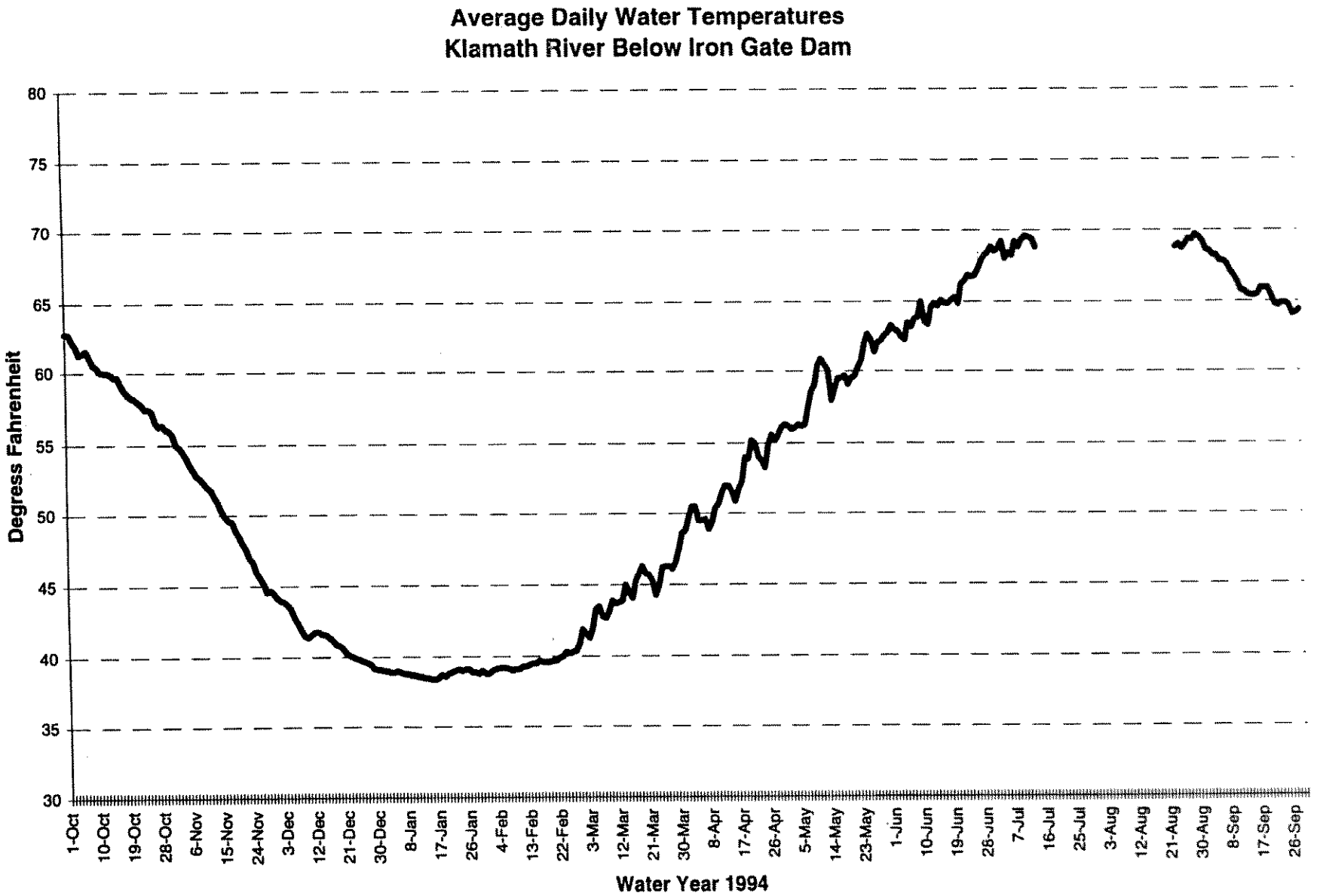

Average Daily Water Temperatures
Klamath River Below Copco Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below Iron Gate Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.8	55.7	44.2	39.0	38.8	41.9	48.8	56.3	62.8	68.4	---	69.5
2	62.8	55.0	44.0	39.0	39.0	41.6	49.7	56.2	63.3	68.8	---	69.2
3	62.3	54.8	43.9	38.9	39.1	41.3	50.5	56.0	63.0	68.5	---	68.6
4	61.9	54.5	43.7	38.9	39.2	42.0	50.5	56.1	62.9	68.7	---	68.5
5	61.3	54.1	43.4	39.0	39.2	43.3	49.5	56.3	62.5	69.2	---	68.2
6	61.4	53.6	42.8	38.9	39.2	43.5	49.5	56.2	62.3	68.0	---	68.2
7	61.6	53.2	42.4	38.8	39.1	42.8	49.6	56.3	63.5	68.4	---	67.8
8	61.1	52.8	41.9	38.8	39.0	42.7	48.9	57.5	63.2	68.2	---	67.8
9	60.6	52.6	41.5	38.7	39.1	43.2	49.4	58.6	63.8	69.2	---	67.6
10	60.4	52.3	41.4	38.7	39.1	43.9	50.4	59.0	63.9	68.8	---	67.1
11	60.1	52.0	41.6	38.6	39.3	43.7	50.7	60.4	65.0	69.3	---	66.8
12	60.0	51.8	41.8	38.6	39.3	43.8	51.5	60.9	63.6	69.6	---	66.4
13	60.0	51.3	41.8	38.5	39.4	43.9	52.0	60.5	63.4	69.5	---	65.8
14	59.9	50.9	41.6	38.5	39.5	45.0	52.0	60.1	64.6	69.4	---	65.7
15	59.7	50.3	41.6	38.4	39.5	44.5	51.6	58.0	64.9	68.8	---	65.5
16	59.7	49.9	41.4	38.4	39.7	44.1	50.9	58.8	64.7	---	---	65.4
17	59.2	49.6	41.2	38.5	39.6	45.3	51.7	59.5	65.1	---	---	65.4
18	58.8	49.5	40.9	38.7	39.6	45.8	52.3	59.5	64.9	---	---	65.5
19	58.5	48.9	40.8	38.6	39.6	46.3	54.0	59.7	64.9	---	---	65.9
20	58.3	48.5	40.6	38.8	39.7	45.8	53.9	59.1	65.1	---	---	65.9
21	58.2	48.0	40.3	38.9	39.7	45.7	55.2	59.5	65.3	---	---	65.9
22	58.0	47.6	40.1	39.0	39.9	45.3	55.0	59.7	64.9	---	---	65.4
23	57.8	47.0	40.0	39.1	40.0	44.3	54.1	60.3	66.2	---	---	64.8
24	57.5	46.7	39.9	39.0	40.3	45.0	53.8	60.8	66.4	---	---	64.7
25	57.5	46.0	39.8	39.1	40.2	46.2	53.3	62.0	66.8	---	68.8	64.9
26	57.3	45.6	39.7	39.1	40.3	46.3	54.9	62.7	66.7	---	69.0	64.9
27	56.6	45.2	39.6	38.9	40.4	46.3	55.6	62.3	66.8	---	68.7	64.7
28	56.3	44.6	39.5	38.9	40.9	46.1	55.2	61.4	67.2	---	69.0	64.1
29	56.4	44.7	39.2	38.8	---	46.6	55.6	62.1	67.8	---	69.4	64.2
30	56.1	44.5	39.1	39.0	---	47.5	56.1	62.2	68.2	---	69.3	64.4
31	56.0	---	39.1	38.8	---	48.6	---	62.6	---	---	69.7	---
MEAN	59.3	50.0	41.3	38.8	39.5	44.6	52.2	59.4	64.8	---	---	66.3
MAX	62.8	55.7	44.2	39.1	40.9	48.6	56.1	62.7	68.2	---	---	69.5
MIN	56.0	44.5	39.1	38.4	38.8	41.3	48.8	56.0	62.3	---	---	64.1

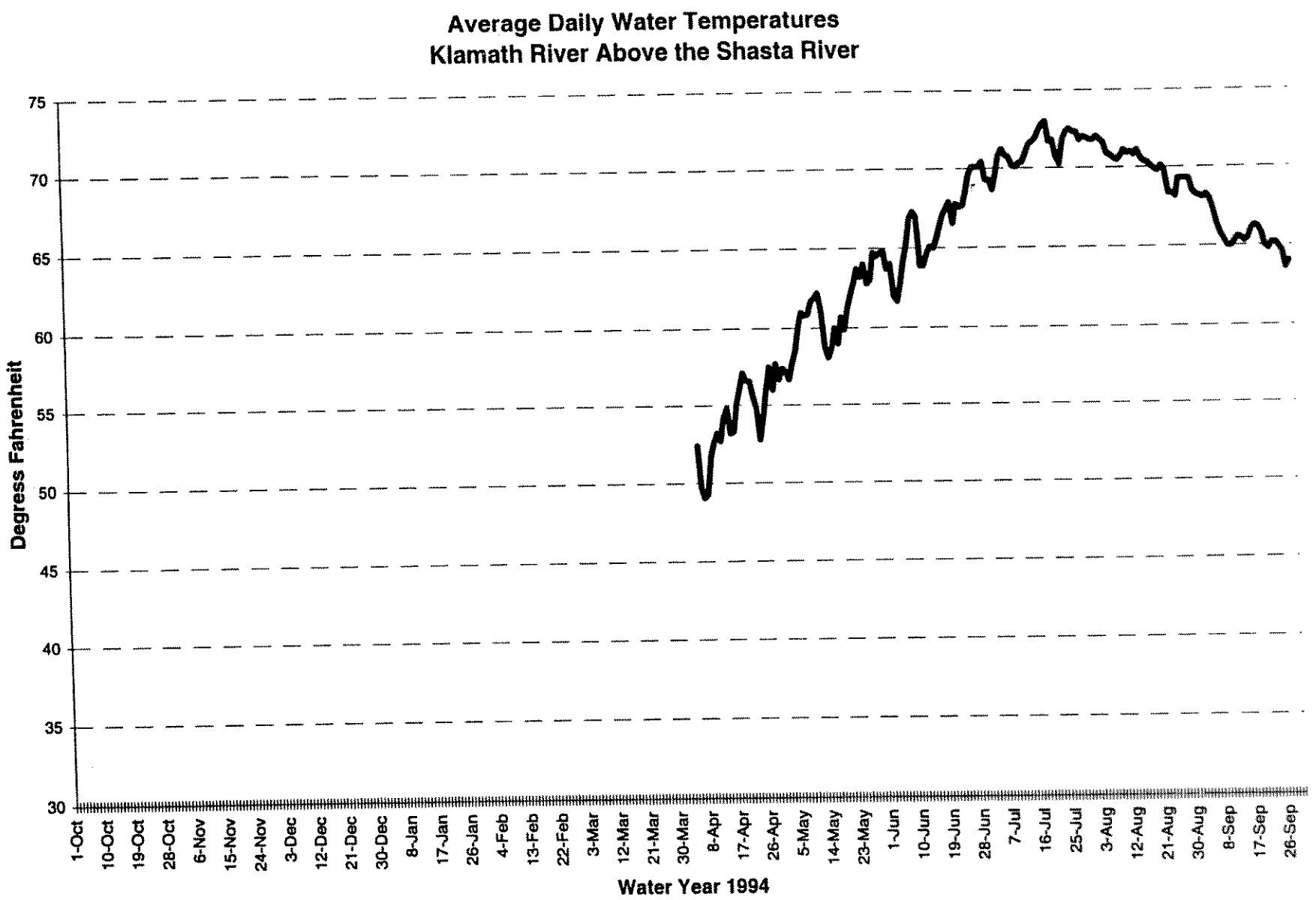

Average Daily Water Temperatures
Klamath River Below Iron Gate Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Above the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	56.7	64.7	70.1	72.0	69.3
2	---	---	---	---	---	---	---	57.4	64.8	70.4	71.9	68.5
3	---	---	---	---	---	---	---	57.2	63.7	69.3	71.8	68.3
4	---	---	---	---	---	---	---	56.7	64.0	69.3	71.8	68.2
5	---	---	---	---	---	---	---	57.7	62.0	68.7	72.0	68.1
6	---	---	---	---	---	---	52.4	58.5	61.7	69.6	71.8	68.3
7	---	---	---	---	---	---	49.8	60.0	62.8	70.8	71.6	68.0
8	---	---	---	---	---	---	49.1	61.0	64.2	71.2	70.9	67.3
9	---	---	---	---	---	---	49.3	60.8	65.3	70.8	70.8	66.4
10	---	---	---	---	---	---	51.7	60.9	66.9	70.7	70.6	65.8
11	---	---	---	---	---	---	52.6	61.7	67.3	70.2	70.5	65.4
12	---	---	---	---	---	---	53.2	61.9	67.0	70.1	70.7	65.0
13	---	---	---	---	---	---	52.7	62.2	63.9	70.3	71.1	65.0
14	---	---	---	---	---	---	54.2	61.1	63.9	70.4	70.9	65.3
15	---	---	---	---	---	---	54.8	58.8	64.6	70.9	71.0	65.6
16	---	---	---	---	---	---	53.2	58.1	65.1	71.5	70.8	65.5
17	---	---	---	---	---	---	53.3	58.7	65.0	71.7	71.1	65.3
18	---	---	---	---	---	---	55.1	60.0	65.6	71.9	70.6	65.5
19	---	---	---	---	---	---	56.1	59.0	66.4	72.4	70.4	66.1
20	---	---	---	---	---	---	57.1	60.7	67.1	72.8	70.3	66.3
21	---	---	---	---	---	---	56.6	59.9	67.5	73.0	70.1	66.2
22	---	---	---	---	---	---	56.6	61.3	67.9	71.7	69.9	65.8
23	---	---	---	---	---	---	55.6	62.1	66.6	71.8	69.8	65.0
24	---	---	---	---	---	---	54.8	62.8	67.8	70.7	70.1	64.8
25	---	---	---	---	---	---	52.8	63.7	67.6	70.3	69.8	65.2
26	---	---	---	---	---	---	54.2	63.2	67.7	71.8	68.4	65.2
27	---	---	---	---	---	---	56.1	64.0	68.6	72.3	68.4	64.9
28	---	---	---	---	---	---	57.5	62.8	69.6	72.5	68.2	64.6
29	---	---	---	---	---	---	56.0	63.0	70.1	72.3	69.3	63.6
30	---	---	---	---	---	---	57.7	64.7	70.1	72.3	69.3	64.0
31	---	---	---	---	---	---	---	64.5	---	71.8	69.3	---
MEAN	---	---	---	---	---	---	---	60.7	66.0	71.1	70.5	66.1
MAX	---	---	---	---	---	---	---	64.7	70.1	73.0	72.0	69.3
MIN	---	---	---	---	---	---	---	56.7	61.7	68.7	68.2	63.6

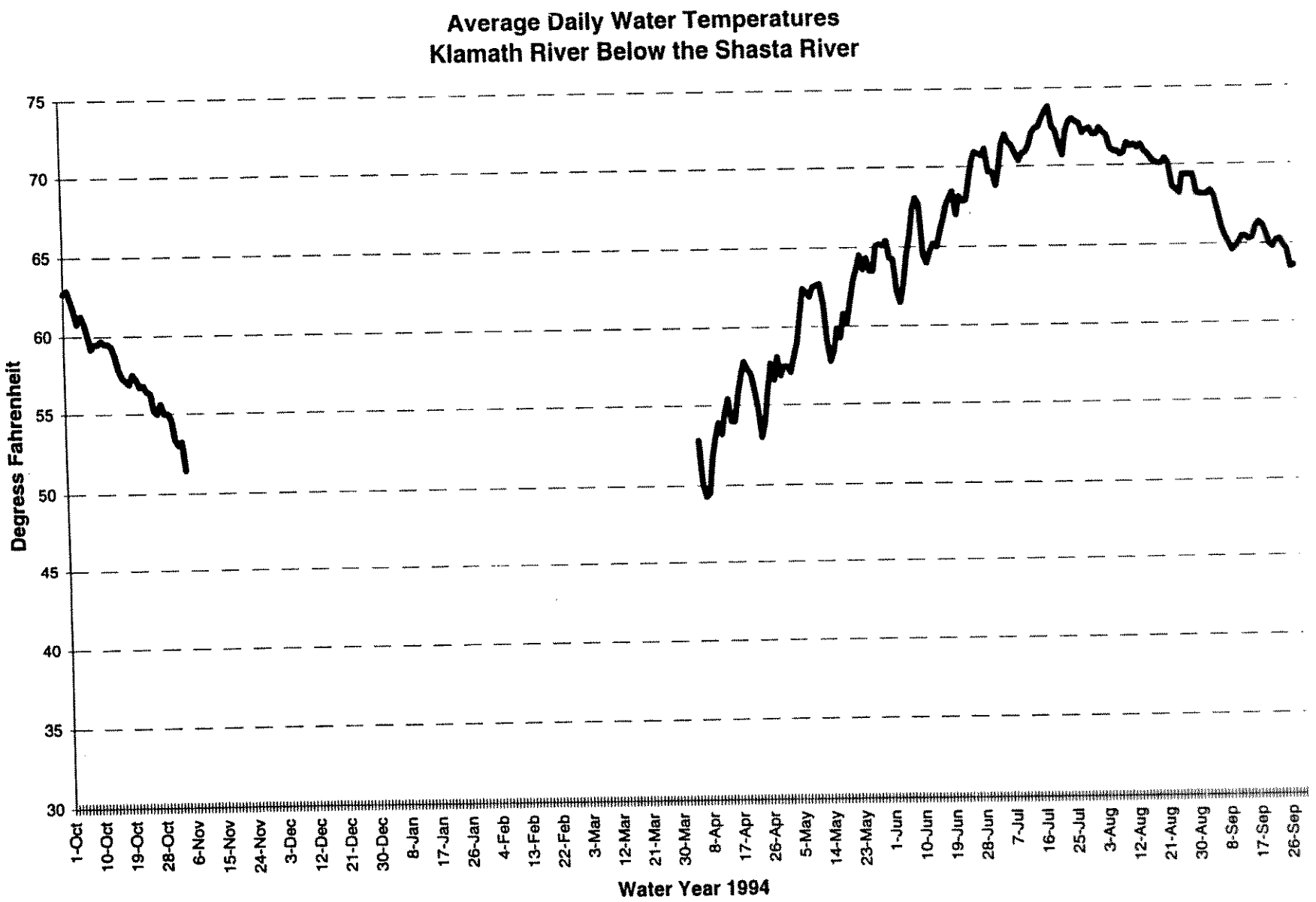

Average Daily Water Temperatures
Klamath River Above the Shasta River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.7	54.6	---	---	---	---	---	56.9	65.1	70.7	72.3	69.4
2	62.9	53.4	---	---	---	---	---	57.5	65.4	71.1	72.4	68.3
3	62.3	53.0	---	---	---	---	---	57.5	64.3	69.7	72.0	68.2
4	61.6	53.2	---	---	---	---	---	57.1	64.2	69.7	72.0	68.2
5	60.8	51.5	---	---	---	---	---	58.1	62.2	68.9	72.4	68.2
6	61.3	---	---	---	---	---	52.8	59.0	61.5	69.9	72.1	68.4
7	60.8	---	---	---	---	---	50.1	60.8	62.6	71.4	71.9	68.1
8	60.0	---	---	---	---	---	49.3	62.4	64.5	72.0	71.1	67.2
9	59.2	---	---	---	---	---	49.5	62.2	65.7	71.5	70.9	66.1
10	59.5	---	---	---	---	---	51.8	61.9	67.4	71.3	70.9	65.5
11	59.5	---	---	---	---	---	53.0	62.5	68.1	70.8	70.7	65.1
12	59.7	---	---	---	---	---	53.9	62.6	67.7	70.4	70.8	64.6
13	59.5	---	---	---	---	---	53.2	62.7	64.5	70.8	71.4	64.8
14	59.5	---	---	---	---	---	54.6	61.5	64.0	70.9	71.2	65.1
15	59.3	---	---	---	---	---	55.4	59.2	64.7	71.3	71.3	65.5
16	58.7	---	---	---	---	---	54.0	57.8	65.2	72.1	71.1	65.5
17	57.8	---	---	---	---	---	54.0	58.4	65.0	72.4	71.3	65.3
18	57.3	---	---	---	---	---	55.7	59.9	65.9	72.5	70.9	65.4
19	57.1	---	---	---	---	---	56.9	59.3	66.7	73.0	70.7	66.1
20	56.9	---	---	---	---	---	57.8	60.8	67.6	73.5	70.4	66.4
21	57.5	---	---	---	---	---	57.3	60.2	68.1	73.8	70.2	66.2
22	57.2	---	---	---	---	---	57.0	61.6	68.5	72.5	70.1	65.7
23	56.7	---	---	---	---	---	56.0	62.9	67.1	72.2	70.1	65.0
24	56.8	---	---	---	---	---	54.8	63.6	68.2	71.3	70.4	64.8
25	56.4	---	---	---	---	---	53.0	64.5	67.9	70.7	70.1	65.2
26	56.3	---	---	---	---	---	53.9	63.6	68.0	72.2	68.7	65.3
27	55.2	---	---	---	---	---	56.1	64.3	69.2	72.8	68.5	64.9
28	55.0	---	---	---	---	---	57.7	63.5	70.3	73.0	68.3	64.6
29	55.6	---	---	---	---	---	56.6	63.5	70.9	72.8	69.4	63.5
30	55.0	---	---	---	---	---	58.1	65.1	70.8	72.7	69.4	63.6
31	55.0	---	---	---	---	---	---	65.2	---	72.1	69.4	---
MEAN	58.5	---	---	---	---	---	---	61.2	66.4	71.6	70.7	66.0
MAX	62.9	---	---	---	---	---	---	65.2	70.9	73.8	72.4	69.4
MIN	55.0	---	---	---	---	---	---	56.9	61.5	68.9	68.3	63.5

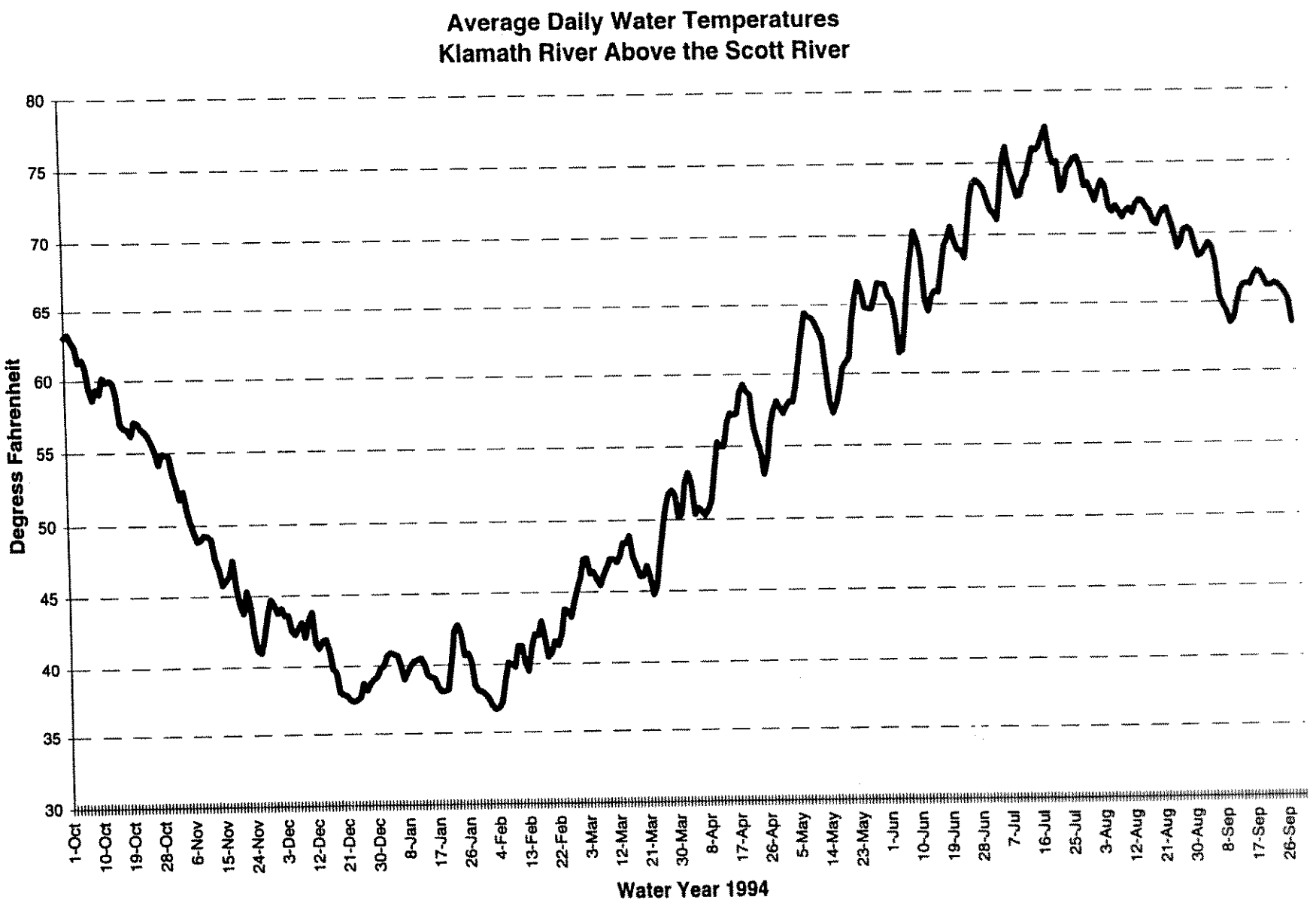

Average Daily Water Temperatures
Klamath River Below the Shasta River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Above the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.1	53.6	43.8	40.0	37.5	46.0	50.4	57.7	66.5	73.6	73.4	70.2
2	63.3	52.7	44.1	40.7	37.0	47.3	52.5	57.3	66.5	73.3	73.6	69.2
3	62.8	51.8	43.6	40.9	36.7	47.4	53.2	57.8	65.7	72.5	73.0	68.4
4	62.4	52.3	43.6	40.8	36.8	46.3	52.5	58.1	65.3	71.8	72.4	68.5
5	61.3	51.1	42.6	40.7	37.2	46.4	50.4	58.1	64.0	71.5	73.1	68.9
6	61.5	50.2	42.3	40.0	38.8	45.9	50.8	59.4	61.5	71.1	73.7	69.3
7	60.9	49.5	42.7	39.0	40.1	45.5	50.6	61.3	61.7	73.1	73.4	69.0
8	59.4	48.9	43.1	39.5	40.0	46.2	50.3	63.0	64.0	75.2	71.9	67.9
9	58.7	49.0	42.1	40.0	39.8	46.7	50.7	64.4	66.9	76.1	71.6	65.5
10	59.4	49.3	43.3	40.3	41.3	47.3	51.3	64.1	68.8	74.6	72.0	64.8
11	59.1	49.2	43.8	40.4	41.3	47.3	53.4	64.0	70.3	73.7	71.6	64.3
12	60.2	49.0	41.7	40.5	40.1	47.1	55.3	63.6	69.6	72.7	71.2	63.5
13	59.9	47.6	41.3	40.1	39.5	47.5	55.0	63.0	68.4	72.8	71.6	63.8
14	60.0	46.9	41.8	39.3	41.2	48.4	55.0	62.5	65.3	73.7	71.8	64.9
15	59.8	45.8	41.9	39.1	42.1	48.4	56.7	60.2	64.5	74.1	71.5	65.9
16	58.9	46.1	41.1	39.0	42.0	48.9	57.3	58.1	65.6	75.1	72.1	66.3
17	57.0	46.4	39.8	38.4	43.0	47.4	57.2	57.3	66.0	76.0	72.4	66.4
18	56.7	47.5	39.5	38.1	41.8	46.8	57.3	57.9	65.9	75.9	72.3	66.3
19	56.6	45.6	38.1	38.1	40.5	46.1	58.8	58.9	67.7	76.2	71.9	66.9
20	56.2	44.4	37.9	38.2	40.8	46.1	59.3	60.4	69.3	76.9	71.6	67.3
21	57.1	43.8	37.8	40.1	41.6	46.8	58.8	60.8	69.8	77.5	70.9	67.2
22	57.0	45.3	37.5	42.4	41.3	46.0	58.6	61.2	70.6	75.8	70.7	66.7
23	56.6	44.4	37.4	42.8	42.1	44.8	56.3	63.8	69.6	75.0	71.3	66.2
24	56.4	42.3	37.5	42.2	43.8	45.4	55.4	65.5	69.0	75.1	71.7	66.2
25	56.1	41.2	37.7	40.7	43.7	47.5	54.6	66.7	68.9	73.1	71.8	66.4
26	55.6	41.0	38.7	40.8	43.3	49.2	53.1	66.1	68.4	73.4	71.0	66.3
27	55.0	42.2	38.2	40.2	44.3	50.8	54.2	64.8	70.3	74.6	70.2	66.0
28	54.2	43.7	38.7	38.5	45.2	51.7	56.5	64.7	72.6	74.9	69.0	65.7
29	54.9	44.7	39.0	38.1	---	52.0	57.5	64.7	73.6	75.3	69.4	65.2
30	54.8	44.3	39.2	38.0	---	51.7	58.1	65.5	73.8	75.4	70.3	63.5
31	54.7	---	39.8	37.8	---	50.2	---	66.6	---	74.7	70.4	---
MEAN	58.4	47.0	40.6	39.8	40.8	47.6	54.7	61.8	67.7	74.3	71.7	66.6
MAX	63.3	53.6	44.1	42.8	45.2	52.0	59.3	66.7	73.8	77.5	73.7	70.2
MIN	54.2	41.0	37.4	37.8	36.7	44.8	50.3	57.3	61.5	71.1	69.0	63.5

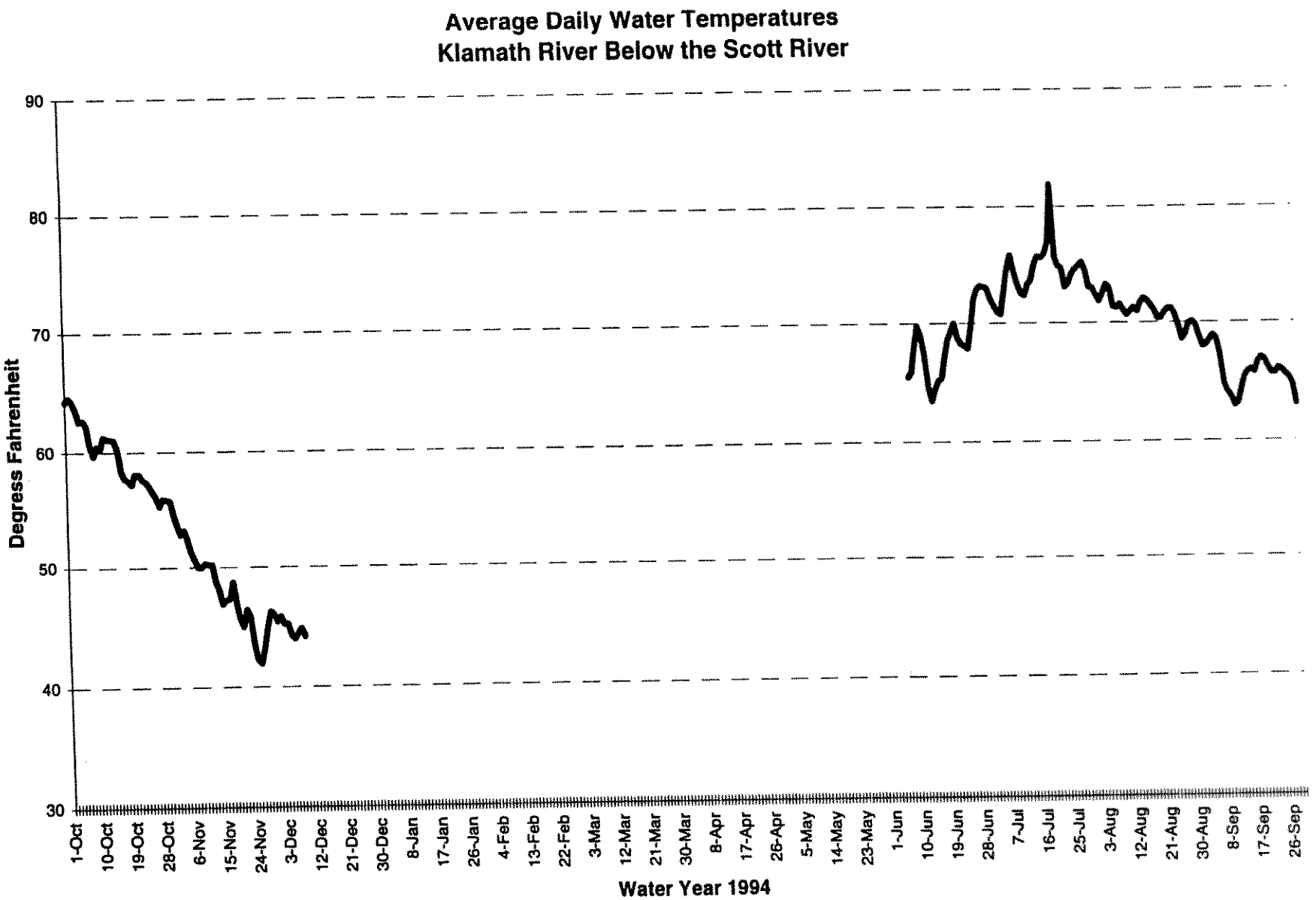

Average Daily Water Temperatures
Klamath River Above the Scott River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.3	54.5	45.4	---	---	---	---	---	---	73.1	73.1	69.8
2	64.6	53.6	45.8	---	---	---	---	---	---	73.0	73.0	68.8
3	64.2	52.8	45.2	---	---	---	---	---	---	72.1	72.4	68.0
4	63.6	53.2	45.2	---	---	---	---	---	---	71.5	71.9	68.1
5	62.6	52.3	44.3	---	---	---	---	---	---	71.0	72.5	68.5
6	62.7	51.3	44.0	---	---	---	---	---	---	70.8	73.3	68.9
7	62.2	50.6	44.4	---	---	---	---	---	---	72.7	73.0	68.6
8	60.5	50.0	44.8	---	---	---	---	---	65.5	74.7	71.4	67.3
9	59.7	50.0	44.2	---	---	---	---	---	65.9	75.8	71.3	64.8
10	60.5	50.3	---	---	---	---	---	---	68.0	74.5	71.6	64.1
11	60.3	50.2	---	---	---	---	---	---	69.8	73.4	71.1	63.7
12	61.3	50.2	---	---	---	---	---	---	69.0	72.6	70.7	63.0
13	61.1	48.8	---	---	---	---	---	---	67.4	72.4	71.0	63.2
14	61.1	48.0	---	---	---	---	---	---	64.6	73.3	71.3	64.4
15	61.0	46.9	---	---	---	---	---	---	63.5	73.7	71.0	65.4
16	60.1	47.2	---	---	---	---	---	---	64.5	75.0	71.7	65.8
17	58.3	47.3	---	---	---	---	---	---	65.2	75.7	72.1	66.0
18	57.7	48.7	---	---	---	---	---	---	65.4	75.6	71.9	65.8
19	57.5	46.9	---	---	---	---	---	---	67.1	75.9	71.5	66.6
20	57.2	45.6	---	---	---	---	---	---	68.6	76.8	71.1	67.0
21	58.1	45.0	---	---	---	---	---	---	69.3	81.9	70.4	66.8
22	58.1	46.4	---	---	---	---	---	---	70.0	75.7	70.4	66.2
23	57.6	45.8	---	---	---	---	---	---	68.8	74.9	70.9	65.7
24	57.4	43.6	---	---	---	---	---	---	68.3	74.7	71.2	65.7
25	57.0	42.3	---	---	---	---	---	---	68.1	73.1	71.2	66.1
26	56.5	42.0	---	---	---	---	---	---	67.9	73.4	70.7	65.9
27	56.0	43.3	---	---	---	---	---	---	69.7	74.2	69.8	65.6
28	55.3	45.0	---	---	---	---	---	---	72.0	74.6	68.6	65.3
29	55.9	46.2	---	---	---	---	---	---	72.9	74.9	69.0	64.7
30	55.8	46.0	---	---	---	---	---	---	73.2	75.2	69.9	63.1
31	55.7	---	---	---	---	---	---	---	---	74.5	70.1	---
MEAN	59.5	48.1	---	---	---	---	---	---	---	74.2	71.3	66.1
MAX	64.6	54.5	---	---	---	---	---	---	---	81.9	73.3	69.8
MIN	55.3	42.0	---	---	---	---	---	---	---	70.8	68.6	63.0

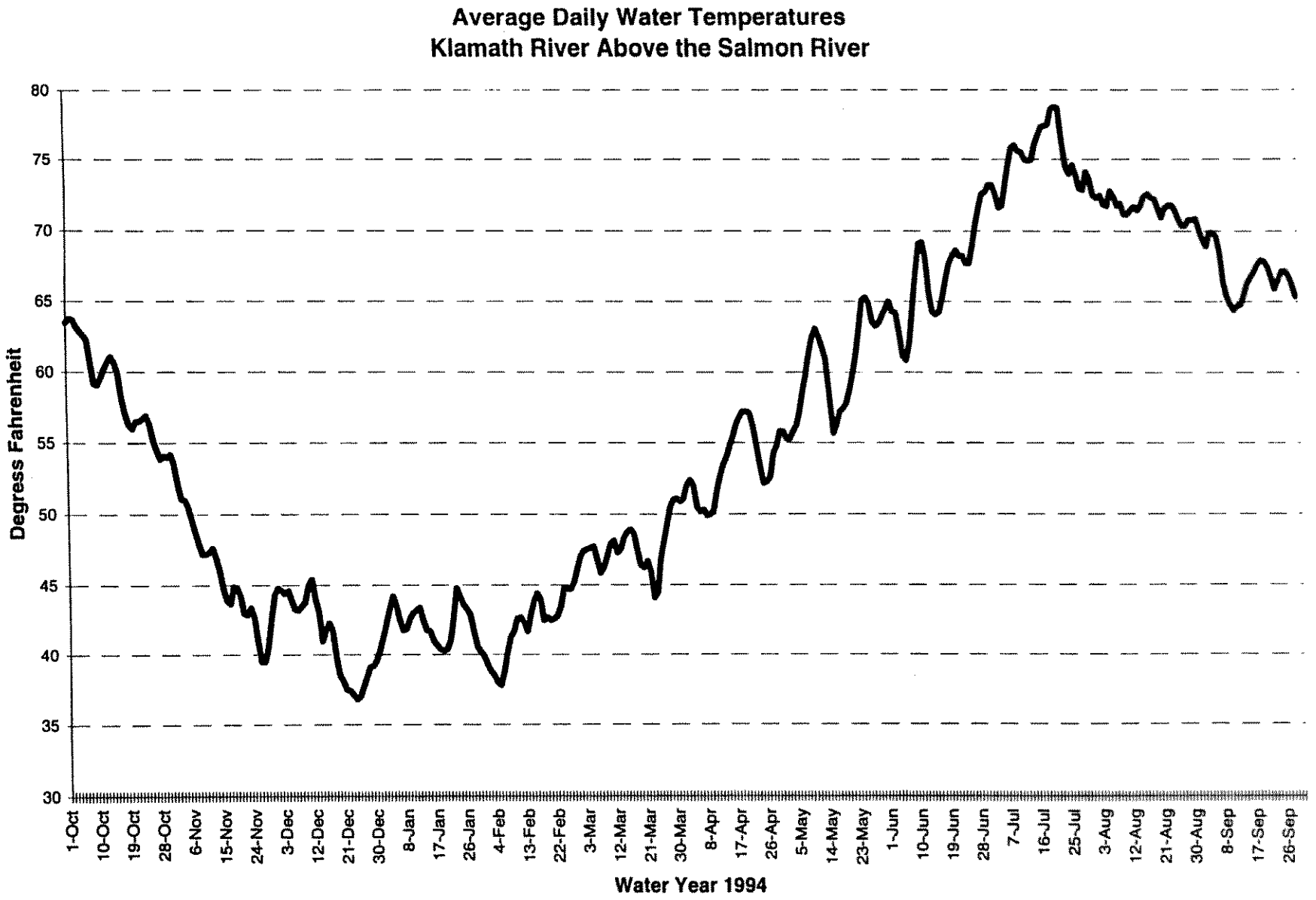

Average Daily Water Temperatures
Klamath River Below the Scott River
Degress Fahrenheit
90
80
70
60
50
40
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Above the Salmon River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.5	53.5	44.8	41.3	39.3	47.0	51.1	55.8	64.5	72.7	73.6	70.9
2	63.8	52.1	44.6	42.3	38.8	47.4	52.0	55.3	65.0	73.2	72.5	70.1
3	63.7	51.1	44.4	43.3	38.5	47.5	52.4	55.3	64.3	73.2	72.3	69.4
4	63.2	51.0	44.6	44.2	38.0	47.6	52.0	55.8	64.2	72.6	72.5	68.9
5	62.9	50.5	43.9	43.5	37.8	47.7	50.5	56.2	62.8	71.7	71.9	69.9
6	62.6	49.6	43.3	42.5	38.8	46.8	50.2	57.2	61.2	71.8	71.8	69.9
7	62.3	48.7	43.2	41.8	40.2	45.9	50.3	58.6	60.9	73.2	72.8	69.6
8	60.7	47.9	43.5	41.9	41.3	46.3	49.9	59.8	62.1	74.6	72.4	68.4
9	59.2	47.2	43.8	42.6	41.7	47.1	50.0	61.3	64.4	75.8	71.8	66.4
10	59.1	47.2	45.0	43.0	42.6	47.9	50.3	62.5	67.0	76.0	71.9	65.4
11	59.6	47.3	45.4	43.2	42.7	48.1	51.7	63.1	69.1	75.6	71.2	64.8
12	60.2	47.6	44.0	43.4	42.3	47.3	52.7	62.5	69.2	75.5	71.2	64.4
13	60.7	46.9	43.1	42.5	41.7	47.5	53.5	61.8	68.0	75.0	71.5	64.7
14	61.1	46.0	41.0	41.8	42.9	48.3	54.0	60.9	65.7	74.9	71.7	64.8
15	60.7	44.7	41.8	41.7	43.8	48.7	54.8	58.4	64.3	75.0	71.5	65.5
16	60.0	43.9	42.3	41.0	44.4	48.9	55.5	55.7	64.1	76.1	71.8	66.3
17	58.3	43.7	41.7	40.7	44.0	48.6	56.3	56.3	64.3	76.7	72.4	66.7
18	57.1	44.9	39.8	40.4	42.5	47.5	56.8	57.2	65.3	77.3	72.6	67.1
19	56.3	44.8	38.5	40.3	42.7	46.4	57.2	57.4	66.6	77.4	72.3	67.6
20	56.0	44.2	38.1	40.4	42.5	46.2	57.2	57.8	67.7	77.5	72.2	67.9
21	56.5	43.0	37.5	41.0	42.6	46.7	57.1	58.7	68.2	78.6	71.6	67.8
22	56.5	42.9	37.4	42.7	42.8	45.9	56.2	59.9	68.6	78.8	71.0	67.4
23	56.7	43.4	37.1	44.8	43.5	44.1	54.8	61.3	68.2	78.7	71.6	66.7
24	56.9	42.7	36.8	44.2	44.8	44.5	53.4	63.2	68.2	76.3	71.8	65.9
25	56.3	41.0	37.0	43.6	44.7	46.9	52.2	65.1	67.7	74.5	71.8	66.5
26	55.2	39.5	37.7	43.3	44.7	48.1	52.3	65.3	67.7	74.0	71.5	67.1
27	54.5	39.5	38.4	42.9	45.2	49.3	52.7	64.9	69.0	74.6	70.9	67.1
28	53.9	40.7	39.1	41.7	46.1	50.5	54.3	63.6	70.5	73.9	70.4	66.8
29	54.1	42.7	39.2	40.6	---	51.0	54.8	63.3	71.7	73.0	70.4	66.2
30	54.0	44.3	39.6	40.2	---	51.1	55.8	63.5	72.6	72.9	70.8	65.4
31	54.2	---	40.4	39.9	---	50.9	---	64.0	---	74.1	70.8	---
MEAN	58.7	45.8	41.2	42.2	42.2	47.7	53.4	60.1	66.4	75.0	71.8	67.2
MAX	63.8	53.5	45.4	44.8	46.1	51.1	57.2	65.3	72.6	78.8	73.6	70.9
MIN	53.9	39.5	36.8	39.9	37.8	44.1	49.9	55.3	60.9	71.7	70.4	64.4

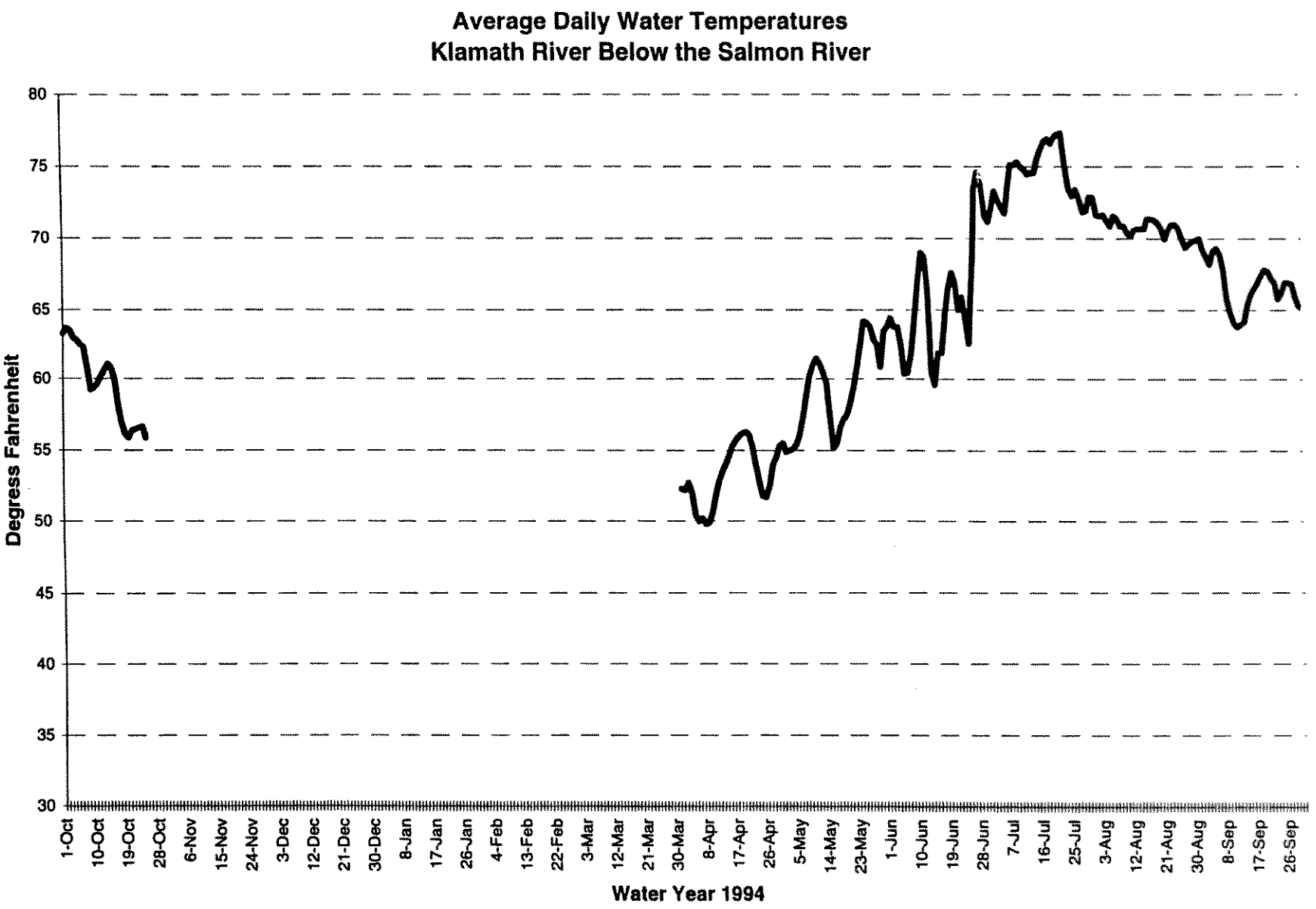

Average Daily Water Temperatures
Klamath River Above the Salmon River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Below the Salmon River
Humboldt County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.3	---	---	---	---	---	52.3	55.5	63.8	71.2	72.9	70.0
2	63.7	---	---	---	---	---	52.2	54.9	64.4	72.2	71.7	69.2
3	63.5	---	---	---	---	---	52.7	55.0	63.8	73.3	71.6	68.7
4	63.0	---	---	---	---	---	52.0	55.1	63.8	72.7	71.7	68.2
5	62.8	---	---	---	---	---	50.4	55.4	62.5	72.2	71.3	69.1
6	62.5	---	---	---	---	---	50.0	56.1	60.4	71.8	70.9	69.3
7	62.3	---	---	---	---	---	50.2	57.3	60.5	73.5	71.6	68.9
8	60.8	---	---	---	---	---	49.8	58.8	61.9	75.1	71.4	67.8
9	59.3	---	---	---	---	---	49.9	60.2	64.3	75.1	70.9	65.8
10	59.4	---	---	---	---	---	50.6	61.0	66.8	75.3	70.9	64.8
11	59.7	---	---	---	---	---	51.8	61.5	69.0	75.0	70.4	64.1
12	60.2	---	---	---	---	---	52.8	61.1	68.7	74.8	70.2	63.8
13	60.6	---	---	---	---	---	53.5	60.5	66.3	74.5	70.6	64.0
14	61.1	---	---	---	---	---	54.0	59.7	60.5	74.6	70.7	64.2
15	60.8	---	---	---	---	---	54.6	57.4	59.6	74.6	70.7	65.4
16	60.0	---	---	---	---	---	55.3	55.2	61.9	75.6	70.7	66.1
17	58.3	---	---	---	---	---	55.7	55.5	61.9	76.2	71.4	66.5
18	57.0	---	---	---	---	---	56.0	56.6	64.6	76.7	71.4	66.9
19	56.2	---	---	---	---	---	56.2	57.2	66.5	76.9	71.3	67.4
20	55.9	---	---	---	---	---	56.3	57.5	67.6	76.6	71.1	67.8
21	56.4	---	---	---	---	---	56.1	58.3	66.9	77.0	70.7	67.7
22	56.5	---	---	---	---	---	55.3	59.4	65.0	77.2	70.0	67.2
23	56.6	---	---	---	---	---	54.0	60.8	65.9	77.3	70.6	66.9
24	56.7	---	---	---	---	---	52.8	62.5	64.4	75.1	71.0	65.8
25	55.9	---	---	---	---	---	51.8	64.2	62.6	73.5	71.0	66.2
26	---	---	---	---	---	---	51.7	64.1	67.7	73.0	70.7	66.9
27	---	---	---	---	---	---	52.5	63.8	73.4	73.4	70.0	66.9
28	---	---	---	---	---	---	54.0	62.9	74.6	72.8	69.4	66.8
29	---	---	---	---	---	---	54.5	62.5	73.8	71.9	69.6	65.9
30	---	---	---	---	---	---	55.3	60.9	71.6	72.0	69.8	65.3
31	---	---	---	---	---	---	---	63.5	---	72.9	69.9	---
MEAN	---	---	---	---	---	---	53.1	59.2	65.5	74.3	70.8	66.8
MAX	---	---	---	---	---	---	56.3	64.2	74.6	77.3	72.9	70.0
MIN	---	---	---	---	---	---	49.8	54.9	59.6	71.2	69.4	63.8

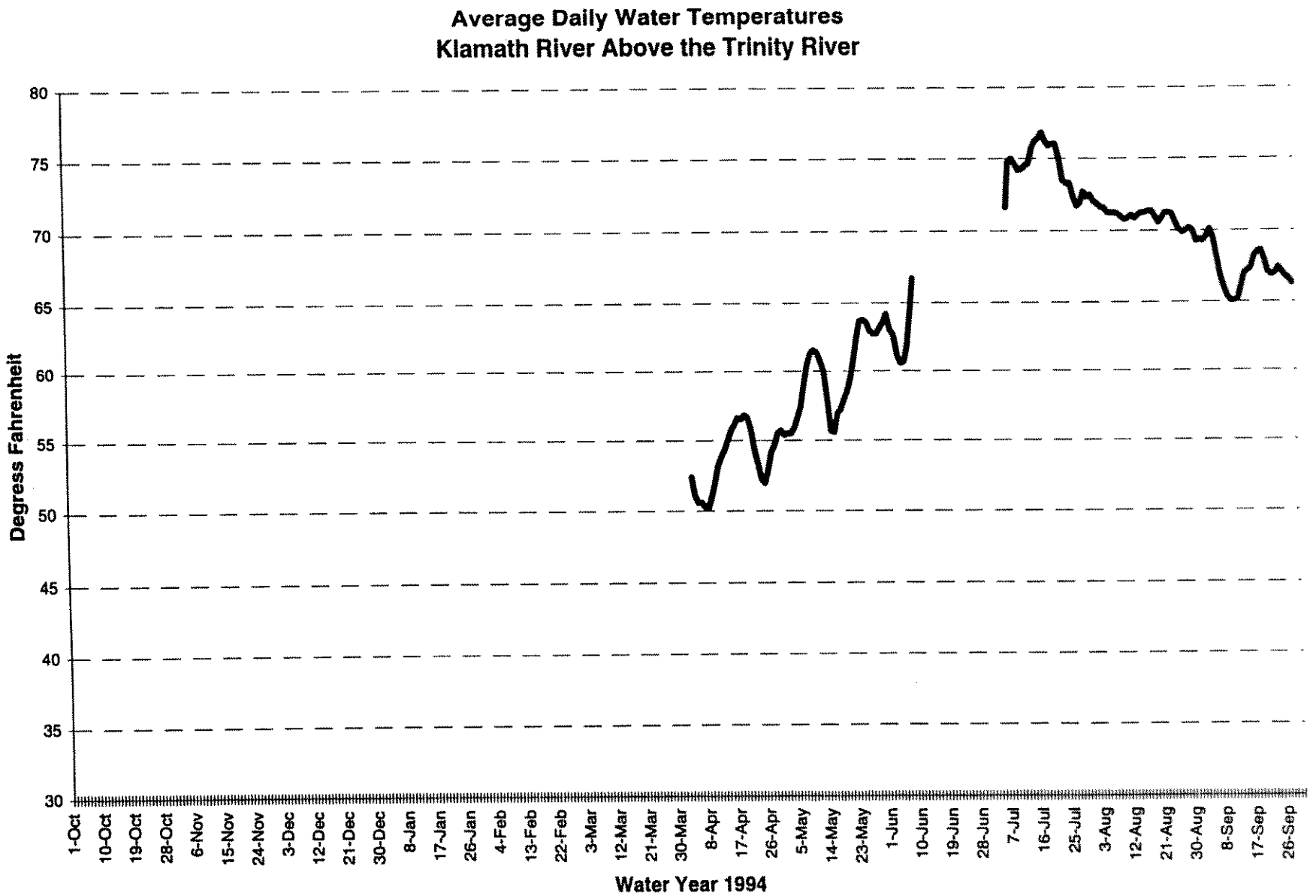

Average Daily Water Temperatures
Klamath River Below the Salmon River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River Above the Trinity River
Humboldt County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	55.7	63.6	---	72.4	70.0
2	---	---	---	---	---	---	---	55.4	64.2	---	72.5	69.3
3	---	---	---	---	---	---	---	55.5	63.1	---	72.1	69.4
4	---	---	---	---	---	---	52.4	55.5	62.7	---	71.9	69.3
5	---	---	---	---	---	---	51.1	55.9	61.2	---	71.7	69.6
6	---	---	---	---	---	---	50.6	56.6	60.6	---	71.6	70.1
7	---	---	---	---	---	---	50.6	57.4	60.7	---	71.3	69.5
8	---	---	---	---	---	---	50.3	59.0	61.9	71.7	71.3	68.2
9	---	---	---	---	---	---	50.2	60.4	64.2	74.8	71.3	66.8
10	---	---	---	---	---	---	51.0	61.3	66.7	75.0	71.2	66.0
11	---	---	---	---	---	---	52.0	61.6	---	74.6	71.0	65.4
12	---	---	---	---	---	---	53.2	61.4	---	74.2	70.8	65.1
13	---	---	---	---	---	---	53.8	60.8	---	74.3	70.9	65.1
14	---	---	---	---	---	---	54.3	60.0	---	74.5	71.1	65.2
15	---	---	---	---	---	---	55.0	58.0	---	74.7	70.9	66.1
16	---	---	---	---	---	---	55.7	55.7	---	75.7	71.1	67.0
17	---	---	---	---	---	---	56.1	55.6	---	76.2	71.3	67.2
18	---	---	---	---	---	---	56.6	56.9	---	76.4	71.3	67.4
19	---	---	---	---	---	---	56.5	57.2	---	76.8	71.4	68.2
20	---	---	---	---	---	---	56.8	57.9	---	76.2	71.4	68.5
21	---	---	---	---	---	---	56.6	58.5	---	75.9	71.0	68.6
22	---	---	---	---	---	---	55.8	59.5	---	76.0	70.6	68.0
23	---	---	---	---	---	---	54.4	60.9	---	76.0	70.9	67.1
24	---	---	---	---	---	---	53.4	62.5	---	75.0	71.3	66.9
25	---	---	---	---	---	---	52.3	63.7	---	73.5	71.3	67.0
26	---	---	---	---	---	---	52.0	63.8	---	73.3	71.2	67.4
27	---	---	---	---	---	---	53.0	63.6	---	73.3	70.6	67.1
28	---	---	---	---	---	---	54.2	63.0	---	72.4	70.1	66.8
29	---	---	---	---	---	---	54.7	62.8	---	71.8	69.9	66.6
30	---	---	---	---	---	---	55.5	62.8	---	72.0	70.0	66.3
31	---	---	---	---	---	---	---	63.2	---	72.7	70.2	---
MEAN	---	---	---	---	---	---	---	59.4	---	---	71.2	67.5
MAX	---	---	---	---	---	---	---	63.8	---	---	72.5	70.1
MIN	---	---	---	---	---	---	---	55.4	---	---	69.9	65.1

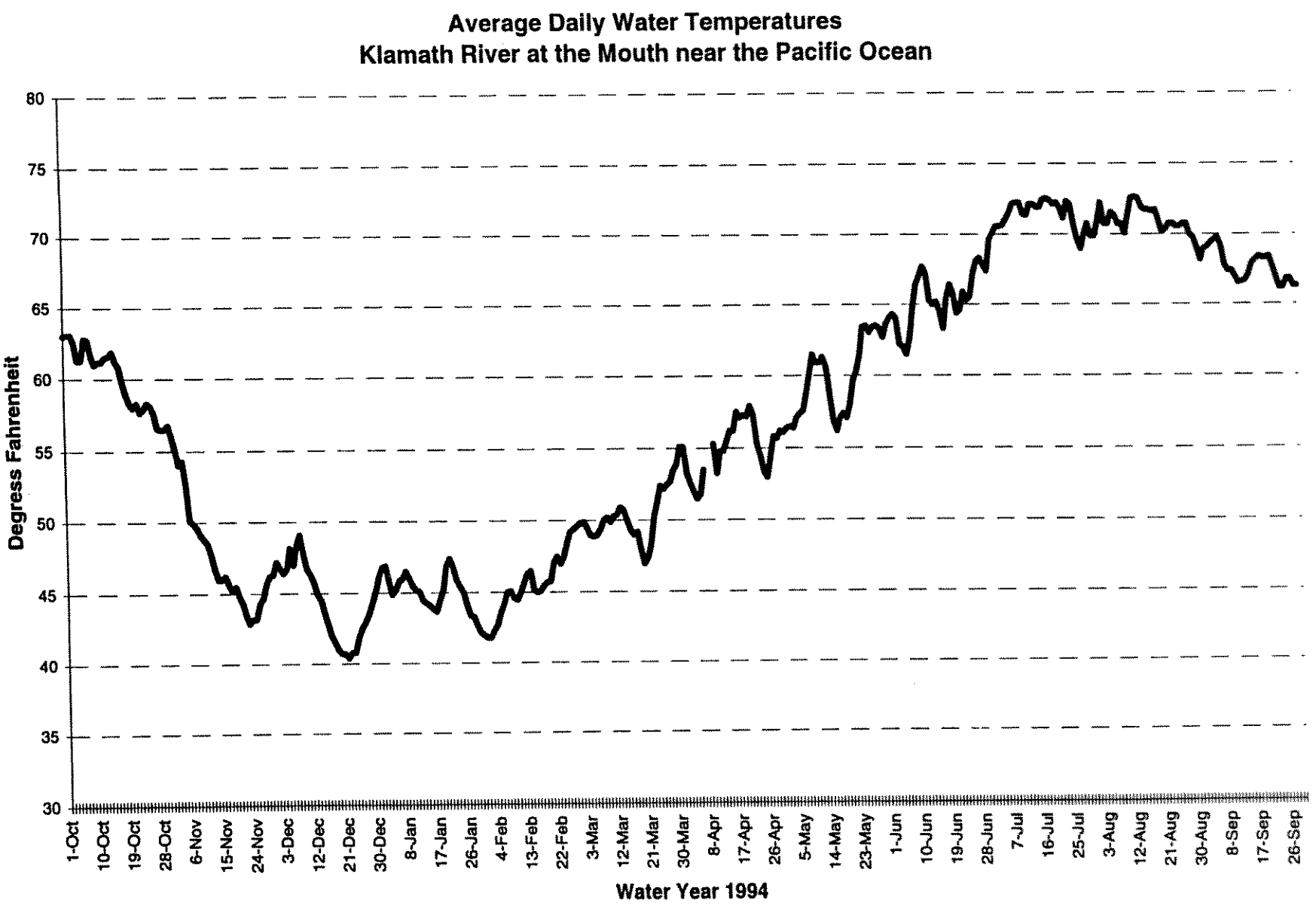

Average Daily Water Temperatures
Klamath River Above the Trinity River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

WATER YEAR - 1994

Water Temperatures, Klamath River Basin
Klamath River at the Mouth near the Pacific Ocean
Del Norte County California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1993 to September 1994
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.0	56.0	47.2	46.8	41.8	49.8	55.1	56.1	63.6	67.4	69.9	69.0
2	63.1	55.1	46.8	46.9	41.8	49.9	53.3	56.4	64.0	69.6	69.9	68.2
3	63.1	54.0	46.4	45.8	42.3	49.5	52.6	56.5	64.3	70.1	70.9	69.0
4	62.5	54.3	46.7	44.9	42.7	49.0	52.0	56.4	64.0	70.6	72.3	69.1
5	61.3	52.7	48.2	45.2	43.6	48.9	51.5	57.1	62.2	70.6	70.8	69.4
6	61.3	50.1	47.0	45.8	44.2	49.0	51.8	57.4	62.0	70.7	70.8	69.6
7	62.8	49.9	48.4	46.0	45.0	49.4	53.5	57.6	61.5	71.1	71.6	69.8
8	62.7	49.6	49.1	46.5	45.1	50.0	---	58.8	62.6	71.6	71.4	69.2
9	61.6	49.1	47.7	46.0	44.6	50.2	---	60.1	64.7	72.2	70.8	67.8
10	61.0	48.8	46.7	45.5	44.5	49.9	55.3	61.5	66.4	72.3	70.8	67.4
11	61.2	48.5	46.3	45.2	45.0	50.3	53.3	60.9	67.0	72.3	70.1	67.4
12	61.2	47.7	45.7	45.1	45.7	50.4	54.8	60.9	67.7	71.5	71.4	67.0
13	61.5	46.7	44.9	44.5	46.3	50.9	54.8	61.3	67.2	71.4	72.6	66.5
14	61.6	46.0	44.5	44.3	46.5	50.7	55.5	60.6	65.3	72.2	72.7	66.6
15	61.9	46.0	43.6	44.1	45.2	50.0	56.2	58.7	65.0	72.2	72.6	66.7
16	61.2	46.2	42.8	43.9	45.0	49.3	56.2	56.9	65.2	72.0	72.0	67.1
17	60.8	45.6	42.0	43.7	45.1	49.0	57.5	56.2	64.5	72.0	71.8	67.9
18	59.7	45.2	41.5	44.5	45.5	49.2	57.1	57.1	63.3	72.5	71.8	68.2
19	58.9	45.5	41.0	45.2	45.7	48.0	57.3	57.4	65.4	72.6	71.7	68.4
20	58.3	44.8	40.7	46.9	45.8	47.0	57.2	57.1	66.4	72.5	71.8	68.3
21	58.0	44.3	40.7	47.4	47.1	47.4	57.9	58.0	65.8	72.2	71.0	68.3
22	58.3	43.5	40.4	46.8	47.5	48.3	57.3	59.7	64.4	72.3	70.2	68.4
23	57.7	42.9	40.8	45.9	47.0	50.2	55.3	60.3	64.6	71.9	70.4	67.7
24	57.9	43.2	40.8	45.4	47.5	51.3	54.5	61.4	65.9	71.2	70.8	66.9
25	58.3	43.2	41.8	45.0	48.4	52.4	53.4	63.4	65.3	72.4	70.8	66.2
26	58.1	44.3	42.5	44.1	49.2	52.2	53.0	63.5	65.6	72.2	70.6	66.2
27	57.6	44.7	42.9	43.4	49.4	52.5	54.5	63.0	67.2	70.8	70.6	66.8
28	56.6	45.7	43.5	43.3	49.6	52.7	55.8	63.4	68.1	69.7	70.8	66.8
29	56.5	46.2	44.3	42.7	---	53.5	55.7	63.5	68.3	69.0	70.8	66.3
30	56.5	46.3	45.1	42.2	---	53.9	56.2	63.3	67.8	70.0	70.0	66.3
31	56.8	---	46.1	42.0	---	55.1	---	62.7	---	70.8	69.8	---
MEAN	60.0	47.5	44.4	45.0	45.6	50.3	---	59.6	65.2	71.3	71.1	67.8
MAX	63.1	56.0	49.1	47.4	49.6	55.1	---	63.5	68.3	72.6	72.7	69.8
MIN	56.5	42.9	40.4	42.0	41.8	47.0	---	56.1	61.5	67.4	69.8	66.2


Average Daily Water Temperatures
Klamath River at the Mouth near the Pacific Ocean
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1994

Appendix C

Water Temperature Monitoring of the Klamath River Mainstem

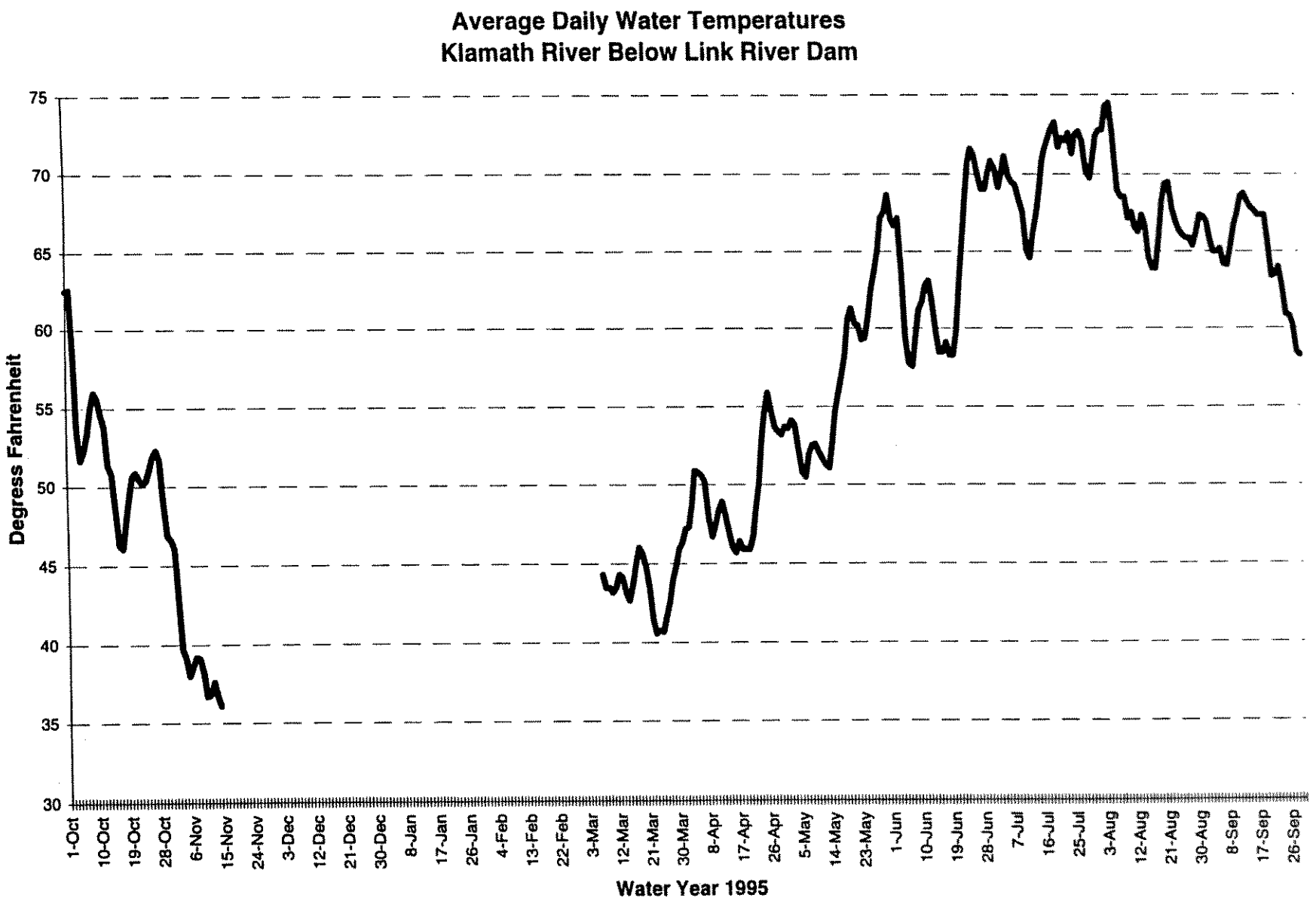
1995 Water Year

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below Link River Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.5	46.0	---	---	---	---	47.2	53.7	68.7	70.1	70.9	67.4
2	62.6	42.8	---	---	---	---	47.3	53.6	67.1	70.8	72.4	67.3
3	58.9	39.7	---	---	---	---	48.7	54.1	66.7	70.4	72.8	67.0
4	53.5	39.1	---	---	---	---	50.9	53.8	67.2	69.2	72.8	65.8
5	51.7	38.0	---	---	---	---	50.8	52.2	64.0	70.1	74.3	65.0
6	52.3	38.6	---	---	---	---	50.6	50.8	59.6	71.1	74.5	65.0
7	53.4	39.2	---	---	---	44.3	50.2	50.5	57.8	69.9	72.3	65.2
8	55.0	39.1	---	---	---	43.5	47.9	51.9	57.6	69.5	69.0	64.2
9	56.0	38.2	---	---	---	43.5	46.7	52.5	59.4	69.3	68.6	64.1
10	55.6	36.7	---	---	---	43.2	47.5	52.6	61.2	68.4	68.6	65.3
11	54.6	36.8	---	---	---	43.5	48.4	52.1	61.7	67.6	67.2	66.7
12	53.8	37.6	---	---	---	44.3	48.9	51.7	62.8	65.1	67.6	67.5
13	51.4	36.7	---	---	---	44.1	48.0	51.3	63.1	64.6	66.6	68.6
14	50.8	36.1	---	---	---	43.2	46.9	51.1	61.7	66.3	66.3	68.8
15	48.6	---	---	---	---	42.7	46.0	52.7	59.9	67.5	67.4	68.3
16	46.3	---	---	---	---	43.7	45.7	54.7	58.5	69.0	66.7	67.9
17	46.1	---	---	---	---	45.0	46.4	55.9	58.5	70.7	64.6	67.7
18	47.7	---	---	---	---	46.0	45.9	57.1	59.1	71.6	63.9	67.4
19	49.2	---	---	---	---	45.6	45.9	58.3	58.3	72.2	63.9	67.4
20	50.6	---	---	---	---	44.8	45.9	60.6	58.3	72.9	65.8	67.4
21	50.9	---	---	---	---	43.5	46.7	61.3	59.7	73.3	68.3	65.6
22	50.5	---	---	---	---	41.5	48.5	60.3	62.9	71.7	69.4	63.4
23	50.2	---	---	---	---	40.6	50.0	60.2	65.7	72.3	69.5	63.5
24	50.4	---	---	---	---	40.8	52.7	59.3	68.4	72.1	67.8	64.0
25	51.1	---	---	---	---	40.7	54.6	59.4	70.6	72.6	67.0	62.8
26	51.9	---	---	---	---	41.7	55.9	60.7	71.6	71.3	66.4	60.9
27	52.3	---	---	---	---	42.6	54.7	62.6	71.2	72.5	66.1	60.8
28	51.7	---	---	---	---	44.0	53.7	63.7	70.0	72.7	65.9	60.2
29	49.1	---	---	---	---	44.8	53.4	65.0	69.1	72.1	65.9	58.5
30	46.9	---	---	---	---	45.9	53.2	67.2	69.1	70.2	65.4	58.3
31	46.6	---	---	---	---	46.3	---	67.6	---	69.8	66.2	---
MEAN	52.0	---	---	---	---	---	49.3	56.7	63.6	70.2	68.2	65.1
MAX	62.6	---	---	---	---	---	55.9	67.6	71.6	73.3	74.5	68.8
MIN	46.1	---	---	---	---	---	45.7	50.5	57.6	64.6	63.9	58.3

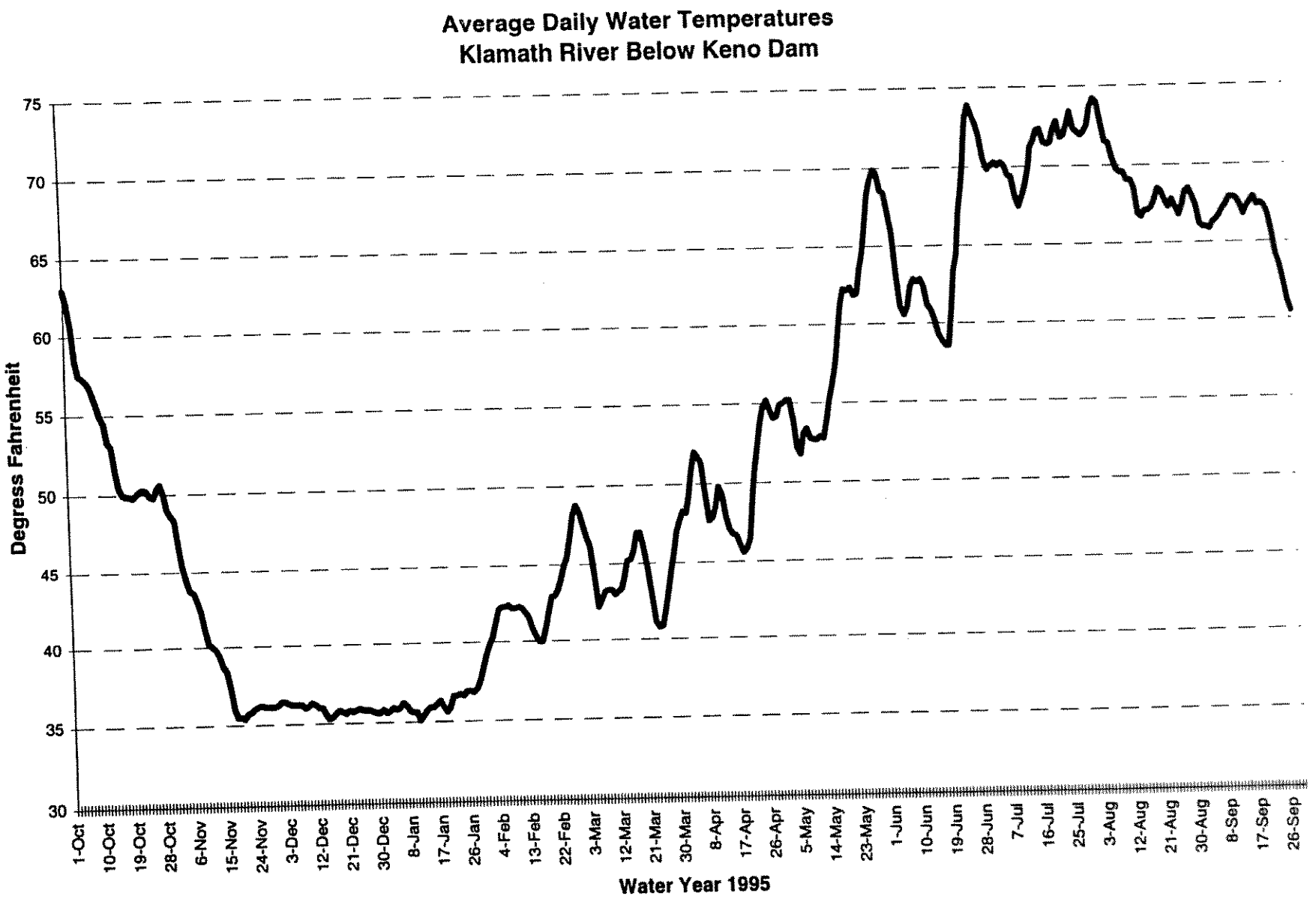

Average Daily Water Temperatures
Klamath River Below Link River Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below Keno Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.0	48.3	36.4	35.6	39.8	48.4	48.3	54.9	69.7	72.7	71.9	68.5
2	62.1	46.7	36.4	35.7	40.3	47.6	48.2	55.0	68.6	71.9	72.1	68.0
3	60.7	45.3	36.3	35.9	41.2	46.8	49.3	55.2	68.4	70.5	72.5	67.4
4	58.5	44.4	36.2	35.8	42.1	46.2	50.9	55.2	67.1	69.9	73.7	66.2
5	57.5	43.7	36.2	35.9	42.3	44.3	52.0	54.0	65.8	70.1	74.2	66.0
6	57.3	43.6	36.2	36.2	42.3	42.2	51.7	52.2	63.1	70.3	74.0	66.0
7	57.1	43.0	36.2	36.0	42.4	42.7	51.3	51.8	61.1	70.1	72.7	65.9
8	56.8	42.3	36.0	35.7	42.2	43.2	49.4	53.1	60.6	70.3	71.5	66.3
9	56.2	41.1	36.1	35.6	42.2	43.3	47.7	53.4	61.1	70.1	71.4	66.5
10	55.6	40.2	36.3	35.6	42.3	43.3	47.9	52.8	62.4	69.5	70.5	66.8
11	54.9	40.0	36.2	35.1	42.2	43.0	48.6	52.7	62.9	69.4	69.8	67.2
12	54.5	39.8	36.0	35.4	41.9	43.2	49.8	52.7	62.7	68.1	69.6	67.5
13	53.3	39.4	36.0	35.7	41.6	43.4	49.3	52.9	62.9	67.5	69.6	67.9
14	53.0	38.7	35.6	35.9	40.9	44.2	47.9	52.8	62.4	68.1	69.1	67.9
15	51.5	38.4	35.3	35.9	40.4	45.2	47.1	53.9	61.2	68.8	69.1	67.8
16	50.4	37.4	35.4	36.1	40.0	45.3	46.8	55.2	60.9	69.8	68.6	67.4
17	50.0	36.0	35.6	36.3	40.0	45.9	46.7	56.2	60.2	71.2	66.9	66.8
18	49.9	35.5	35.8	35.9	40.9	47.0	46.1	57.4	59.3	71.6	66.7	67.3
19	49.9	35.5	35.7	35.6	42.0	47.0	45.6	59.5	58.9	72.2	67.1	67.6
20	49.8	35.4	35.6	35.9	42.9	46.0	45.9	61.3	58.6	72.3	67.1	67.9
21	50.0	35.7	35.8	36.6	43.0	44.7	46.5	62.3	58.6	71.5	67.3	67.4
22	50.2	35.8	35.7	36.6	43.4	42.9	48.9	62.2	60.7	71.4	67.8	67.5
23	50.3	36.0	35.8	36.7	44.1	41.2	50.8	62.4	63.4	71.5	68.5	67.3
24	50.2	36.1	35.9	36.6	44.9	40.8	52.3	61.9	64.4	72.3	68.3	66.8
25	49.9	36.2	35.8	36.9	45.5	40.9	53.8	62.0	67.3	72.8	67.7	65.7
26	49.8	36.1	35.8	36.9	46.7	42.0	54.8	63.5	68.8	71.8	67.3	64.2
27	50.3	36.1	35.8	36.8	48.2	43.2	55.2	64.6	70.8	71.9	67.8	63.5
28	50.6	36.1	35.7	37.0	48.8	44.5	54.6	66.3	73.1	72.5	67.3	62.4
29	50.0	36.1	35.6	37.5	---	45.6	54.1	68.3	73.9	73.4	66.8	61.2
30	49.0	36.2	35.6	38.3	---	47.0	54.2	69.2	73.3	72.3	67.4	60.5
31	48.6	---	35.8	39.1	---	47.7	---	69.9	---	72.1	68.3	---
MEAN	53.3	39.2	35.9	36.3	42.7	44.5	49.8	58.2	64.4	70.9	69.4	66.3
MAX	63.0	48.3	36.4	39.1	48.8	48.4	55.2	69.9	73.9	73.4	74.2	68.5
MIN	48.6	35.4	35.3	35.1	39.8	40.8	45.6	51.8	58.6	67.5	66.7	60.5

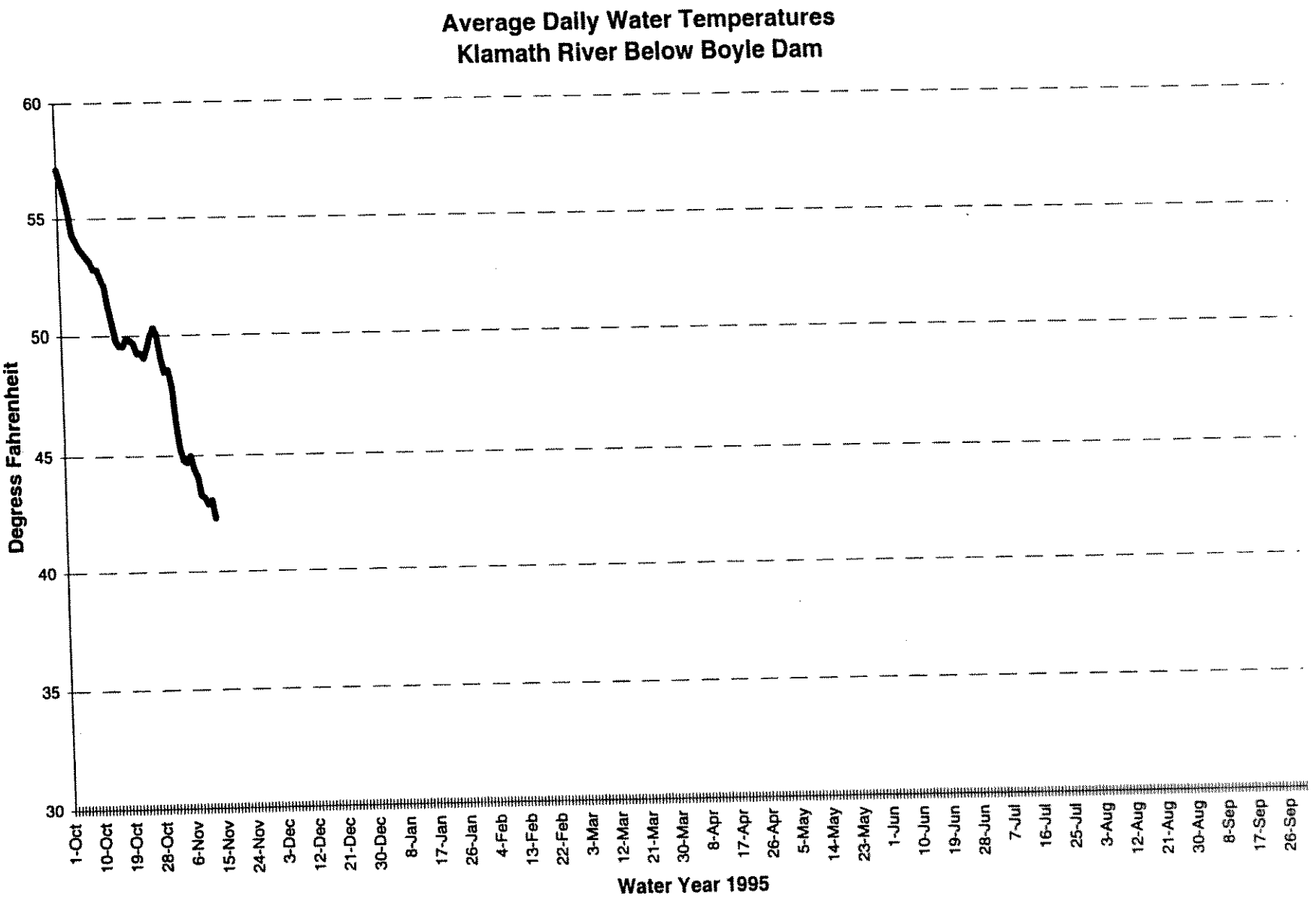

Average Daily Water Temperatures
Klamath River Below Keno Dam
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below Boyle Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57.1	48.6	---	---	---	---	---	---	---	---	---	---
2	56.6	47.9	---	---	---	---	---	---	---	---	---	---
3	56.0	46.3	---	---	---	---	---	---	---	---	---	---
4	55.3	45.3	---	---	---	---	---	---	---	---	---	---
5	54.3	44.8	---	---	---	---	---	---	---	---	---	---
6	54.0	44.7	---	---	---	---	---	---	---	---	---	---
7	53.7	45.0	---	---	---	---	---	---	---	---	---	---
8	53.5	44.4	---	---	---	---	---	---	---	---	---	---
9	53.3	44.1	---	---	---	---	---	---	---	---	---	---
10	53.1	43.3	---	---	---	---	---	---	---	---	---	---
11	52.8	43.2	---	---	---	---	---	---	---	---	---	---
12	52.8	42.9	---	---	---	---	---	---	---	---	---	---
13	52.4	43.1	---	---	---	---	---	---	---	---	---	---
14	52.1	42.3	---	---	---	---	---	---	---	---	---	---
15	51.2	---	---	---	---	---	---	---	---	---	---	---
16	50.5	---	---	---	---	---	---	---	---	---	---	---
17	49.8	---	---	---	---	---	---	---	---	---	---	---
18	49.6	---	---	---	---	---	---	---	---	---	---	---
19	49.6	---	---	---	---	---	---	---	---	---	---	---
20	49.9	---	---	---	---	---	---	---	---	---	---	---
21	49.8	---	---	---	---	---	---	---	---	---	---	---
22	49.7	---	---	---	---	---	---	---	---	---	---	---
23	49.3	---	---	---	---	---	---	---	---	---	---	---
24	49.3	---	---	---	---	---	---	---	---	---	---	---
25	49.1	---	---	---	---	---	---	---	---	---	---	---
26	49.5	---	---	---	---	---	---	---	---	---	---	---
27	50.0	---	---	---	---	---	---	---	---	---	---	---
28	50.3	---	---	---	---	---	---	---	---	---	---	---
29	50.0	---	---	---	---	---	---	---	---	---	---	---
30	49.1	---	---	---	---	---	---	---	---	---	---	---
31	48.5	---	---	---	---	---	---	---	---	---	---	---
MEAN	51.7	---	---	---	---	---	---	---	---	---	---	---
MAX	57.1	---	---	---	---	---	---	---	---	---	---	---
MIN	48.5	---	---	---	---	---	---	---	---	---	---	---

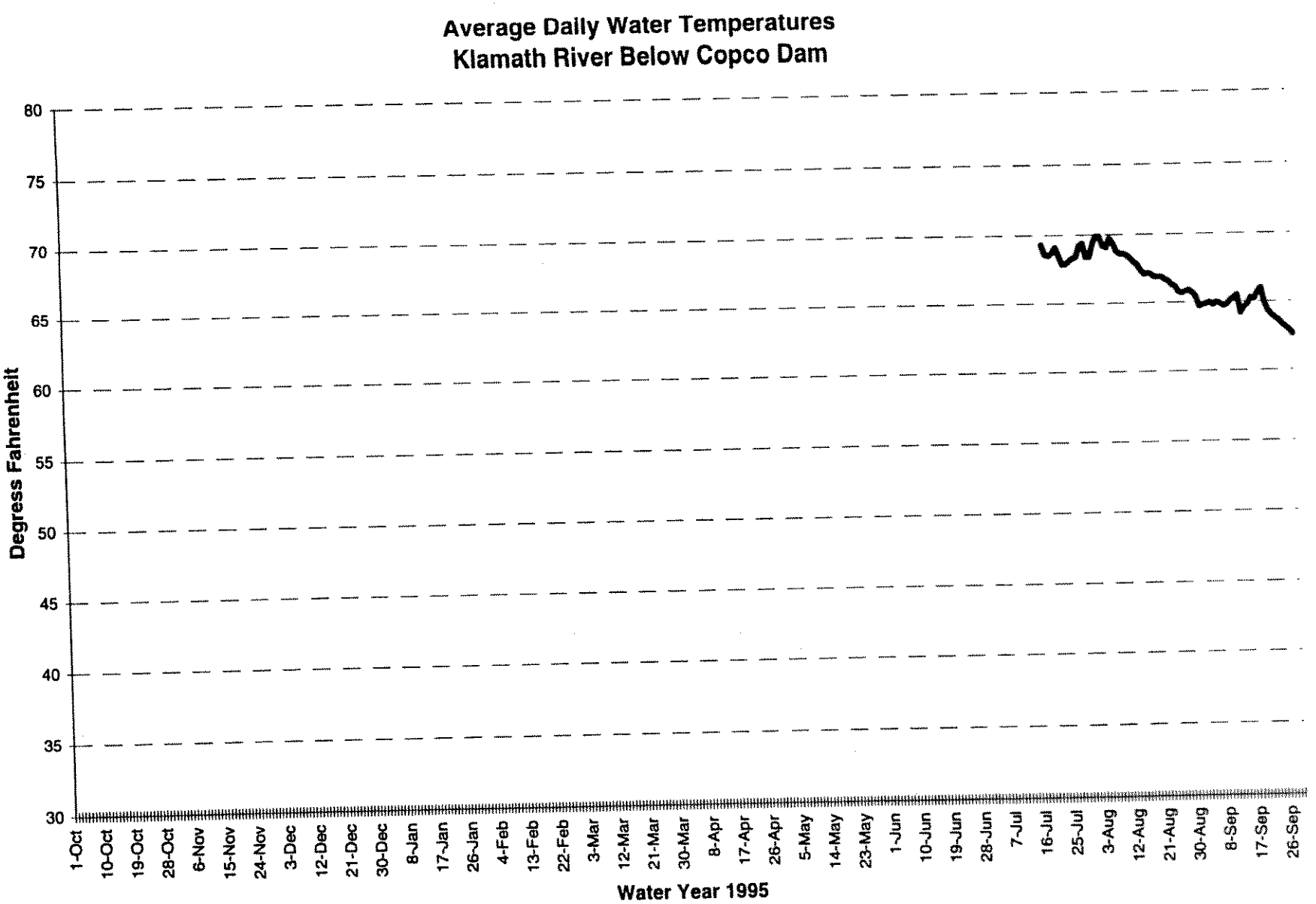

Average Daily Water Temperatures
Klamath River Below Boyle Dam
Degress Fahrenheit
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below Copco Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	68.4	65.7
2	---	---	---	---	---	---	---	---	---	---	68.4	65.4
3	---	---	---	---	---	---	---	---	---	---	69.3	64.7
4	---	---	---	---	---	---	---	---	---	---	69.9	64.8
5	---	---	---	---	---	---	---	---	---	---	69.9	64.9
6	---	---	---	---	---	---	---	---	---	---	69.2	65.0
7	---	---	---	---	---	---	---	---	---	---	69.1	64.8
8	---	---	---	---	---	---	---	---	---	---	69.7	65.0
9	---	---	---	---	---	---	---	---	---	---	69.4	64.9
10	---	---	---	---	---	---	---	---	---	---	68.8	64.7
11	---	---	---	---	---	---	---	---	---	---	68.6	64.8
12	---	---	---	---	---	---	---	---	---	---	68.6	65.1
13	---	---	---	---	---	---	---	---	---	---	68.5	65.3
14	---	---	---	---	---	---	---	---	---	---	68.3	65.5
15	---	---	---	---	---	---	---	---	---	---	68.0	64.2
16	---	---	---	---	---	---	---	---	---	---	67.8	64.6
17	---	---	---	---	---	---	---	---	---	---	67.4	64.8
18	---	---	---	---	---	---	---	---	---	---	67.1	65.3
19	---	---	---	---	---	---	---	---	---	69.3	67.2	65.2
20	---	---	---	---	---	---	---	---	---	68.6	67.1	65.7
21	---	---	---	---	---	---	---	---	---	68.5	66.9	66.0
22	---	---	---	---	---	---	---	---	---	68.7	66.9	64.9
23	---	---	---	---	---	---	---	---	---	69.1	66.9	64.3
24	---	---	---	---	---	---	---	---	---	68.5	66.7	64.0
25	---	---	---	---	---	---	---	---	---	67.9	66.6	63.8
26	---	---	---	---	---	---	---	---	---	67.9	66.3	63.6
27	---	---	---	---	---	---	---	---	---	68.1	66.2	63.3
28	---	---	---	---	---	---	---	---	---	68.3	65.8	63.1
29	---	---	---	---	---	---	---	---	---	68.4	65.7	62.9
30	---	---	---	---	---	---	---	---	---	69.2	65.8	62.6
31	---	---	---	---	---	---	---	---	---	69.4	65.9	---
MEAN	---	---	---	---	---	---	---	---	---	---	67.8	64.6
MAX	---	---	---	---	---	---	---	---	---	---	69.9	66.0
MIN	---	---	---	---	---	---	---	---	---	---	65.7	62.6

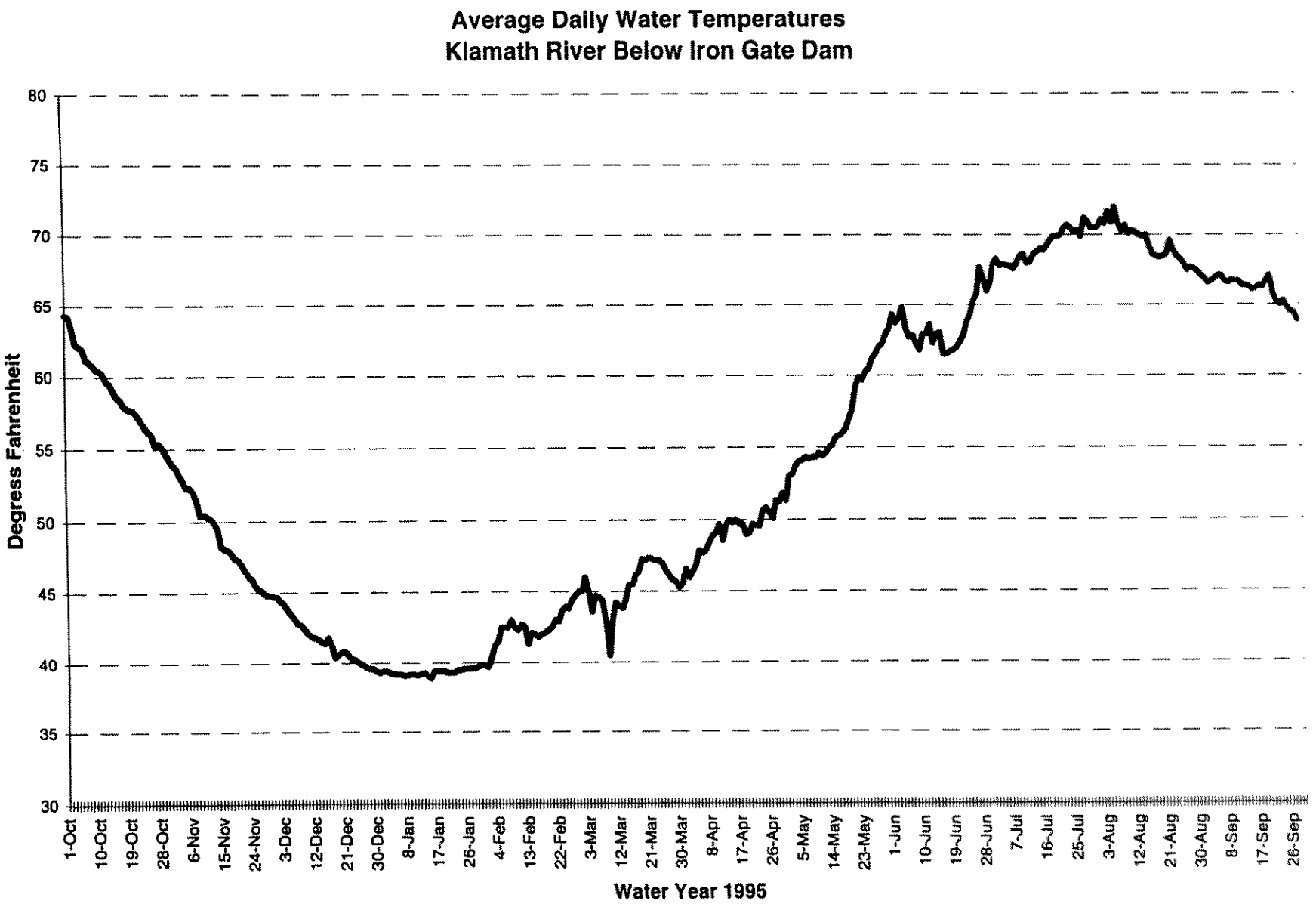

Average Daily Water Temperatures
Klamath River Below Copco Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below Iron Gate Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.3	53.9	44.7	39.4	39.7	45.0	46.6	51.3	63.3	66.5	70.5	67.1
2	64.2	53.7	44.4	39.4	40.4	46.0	46.0	53.0	64.3	67.9	70.6	66.9
3	63.4	53.2	44.2	39.3	41.2	45.0	46.4	53.1	63.7	68.3	71.1	66.6
4	62.3	52.8	43.8	39.2	41.5	43.6	46.9	53.7	64.0	67.8	70.8	66.7
5	62.1	52.3	43.5	39.2	42.5	44.7	47.9	54.0	64.8	67.9	71.7	66.9
6	61.9	52.3	43.2	39.2	42.5	44.6	47.7	54.1	63.3	67.8	70.9	67.1
7	61.2	52.0	42.8	39.1	42.5	44.3	47.9	54.3	62.7	67.8	72.0	67.1
8	61.0	51.4	42.7	39.1	43.0	42.9	48.4	54.2	62.8	67.6	70.8	66.7
9	60.8	50.4	42.4	39.2	42.5	40.5	48.9	54.3	62.2	68.0	70.3	66.6
10	60.5	50.5	42.1	39.2	42.3	43.1	49.1	54.3	61.8	68.5	70.7	66.8
11	60.4	50.3	41.9	39.1	42.7	44.2	49.7	54.6	62.9	68.6	70.1	66.7
12	60.2	50.2	41.8	39.2	42.5	44.0	48.6	54.4	62.9	68.0	70.3	66.7
13	59.7	49.9	41.7	39.3	41.3	43.8	49.6	54.6	63.6	68.1	70.2	66.4
14	59.5	49.5	41.5	39.1	42.1	44.5	50.0	55.0	62.3	68.6	70.0	66.4
15	59.0	48.3	41.4	38.9	42.0	45.5	49.8	55.2	62.9	68.8	69.9	66.3
16	58.6	48.1	41.8	39.4	41.8	45.5	50.0	55.7	63.0	69.0	70.0	66.1
17	58.4	48.0	41.2	39.4	42.0	46.1	49.7	55.8	61.5	68.9	69.2	66.2
18	58.0	47.7	40.4	39.4	42.1	46.4	49.7	56.0	61.5	69.2	68.6	66.4
19	57.8	47.4	40.6	39.4	42.3	47.3	49.0	56.3	61.7	69.6	68.5	66.3
20	57.7	47.3	40.8	39.3	42.5	47.2	49.1	57.0	61.8	69.9	68.4	66.8
21	57.6	46.9	40.8	39.3	43.0	47.4	49.7	57.7	62.0	69.9	68.5	67.1
22	57.3	46.5	40.5	39.3	42.9	47.3	49.6	59.3	62.4	70.0	68.6	65.8
23	56.9	46.1	40.3	39.5	43.6	47.2	49.6	59.9	62.8	70.5	69.6	65.2
24	56.5	45.9	40.2	39.5	43.9	47.2	50.6	59.7	63.8	70.7	68.9	65.0
25	56.2	45.4	40.0	39.6	43.8	47.0	50.8	60.3	64.3	70.5	68.5	65.3
26	56.0	45.2	39.9	39.6	44.4	46.5	50.5	60.5	65.3	70.2	68.3	64.8
27	55.2	45.0	39.7	39.6	44.7	46.1	50.1	61.2	65.8	70.3	68.0	64.5
28	55.4	44.8	39.6	39.6	45.0	45.8	51.3	61.5	67.7	69.9	67.5	64.4
29	55.1	44.8	39.6	39.7	---	45.7	51.2	62.0	67.0	71.2	67.7	63.9
30	54.7	44.7	39.4	39.9	---	45.3	51.8	62.2	66.0	71.0	67.6	---
31	54.3	---	39.3	39.8	---	45.6	---	62.9	---	70.5	67.4	---
MEAN	58.9	48.8	41.5	39.4	42.5	45.3	49.2	56.7	63.5	69.1	69.5	---
MAX	64.3	53.9	44.7	39.9	45.0	47.4	51.8	62.9	67.7	71.2	72.0	---
MIN	54.3	44.7	39.3	38.9	39.7	40.5	46.0	51.3	61.5	66.5	67.4	---

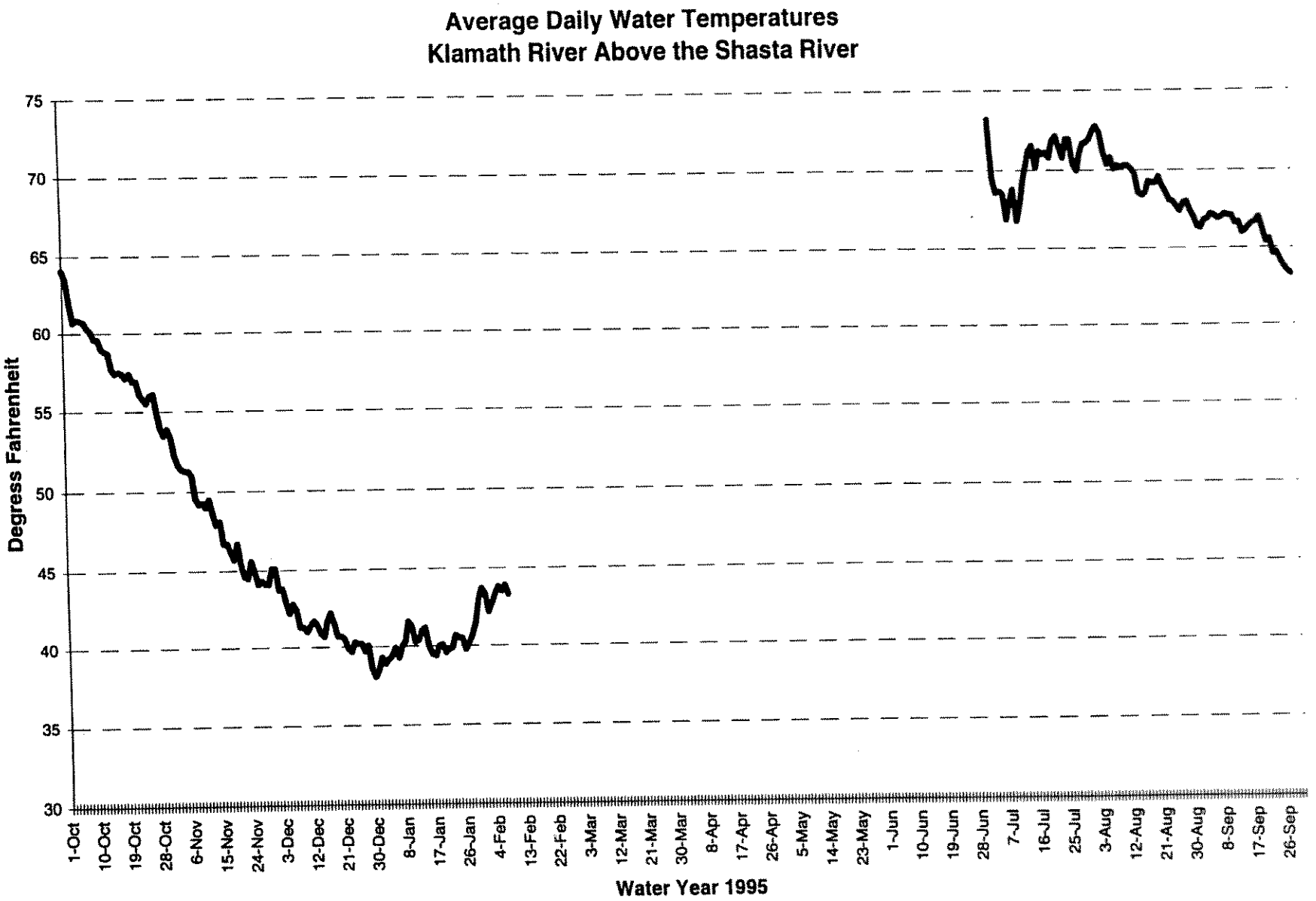

Average Daily Water Temperatures
Klamath River Below Iron Gate Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Above the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.1	53.4	45.1	39.3	43.4	---	---	---	---	---	71.6	67.4
2	63.5	52.3	43.7	38.9	42.2	---	---	---	---	---	71.7	67.0
3	61.9	51.7	43.8	39.2	42.7	---	---	---	---	---	71.9	66.4
4	60.7	51.4	42.9	39.4	43.3	---	---	---	---	73.2	72.4	66.3
5	60.9	51.3	42.2	39.9	43.8	---	---	---	---	69.5	72.7	66.8
6	60.8	51.3	42.8	39.3	43.5	---	---	---	---	68.6	72.3	66.9
7	60.7	51.0	42.4	40.0	43.9	---	---	---	---	68.7	71.1	67.2
8	60.3	49.6	41.3	40.3	43.3	---	---	---	---	68.5	70.4	67.1
9	60.1	49.2	41.3	41.6	---	---	---	---	---	66.9	70.8	66.9
10	59.6	49.3	41.0	41.3	---	---	---	---	---	68.0	70.1	67.0
11	59.6	49.0	41.4	40.3	---	---	---	---	---	68.8	70.3	67.2
12	59.0	49.5	41.7	40.4	---	---	---	---	---	66.8	70.2	67.1
13	58.8	48.6	41.4	41.0	---	---	---	---	---	67.8	70.3	67.1
14	58.7	47.9	40.9	41.2	---	---	---	---	---	69.3	70.3	66.6
15	57.7	48.1	40.7	40.0	---	---	---	---	---	70.3	70.1	66.7
16	57.4	46.7	41.7	39.5	---	---	---	---	---	71.2	69.8	66.0
17	57.5	46.7	42.2	39.4	---	---	---	---	---	71.5	68.6	66.1
18	57.4	46.2	41.5	40.0	---	---	---	---	---	70.2	68.4	66.4
19	57.1	45.7	40.7	40.1	---	---	---	---	---	71.2	68.6	66.6
20	57.4	46.7	40.7	39.6	---	---	---	---	---	71.0	69.3	66.7
21	56.9	45.4	40.5	39.8	---	---	---	---	---	71.1	69.2	67.0
22	56.9	44.6	39.9	39.9	---	---	---	---	---	70.8	69.2	66.2
23	56.1	44.5	39.7	40.7	---	---	---	---	---	71.8	69.6	65.4
24	55.8	45.6	40.3	40.5	---	---	---	---	---	72.1	69.0	65.6
25	55.5	44.9	40.2	40.5	---	---	---	---	---	71.4	68.6	64.6
26	56.0	44.1	40.2	39.8	---	---	---	---	---	70.8	68.1	64.7
27	56.1	44.3	39.7	40.2	---	---	---	---	---	71.9	68.0	64.2
28	55.0	44.1	40.1	40.7	---	---	---	---	---	71.9	67.7	63.8
29	54.0	44.1	38.6	41.5	---	---	---	---	---	70.4	67.4	63.5
30	53.5	45.1	38.1	42.9	---	---	---	---	---	70.0	67.9	63.3
31	53.9	---	38.5	43.7	---	---	---	---	---	71.0	68.0	---
MEAN	58.2	47.8	41.1	40.4	---	---	---	---	---	---	69.8	66.1
MAX	64.1	53.4	45.1	43.7	---	---	---	---	---	---	72.7	67.4
MIN	53.5	44.1	38.1	38.9	---	---	---	---	---	---	67.4	63.3

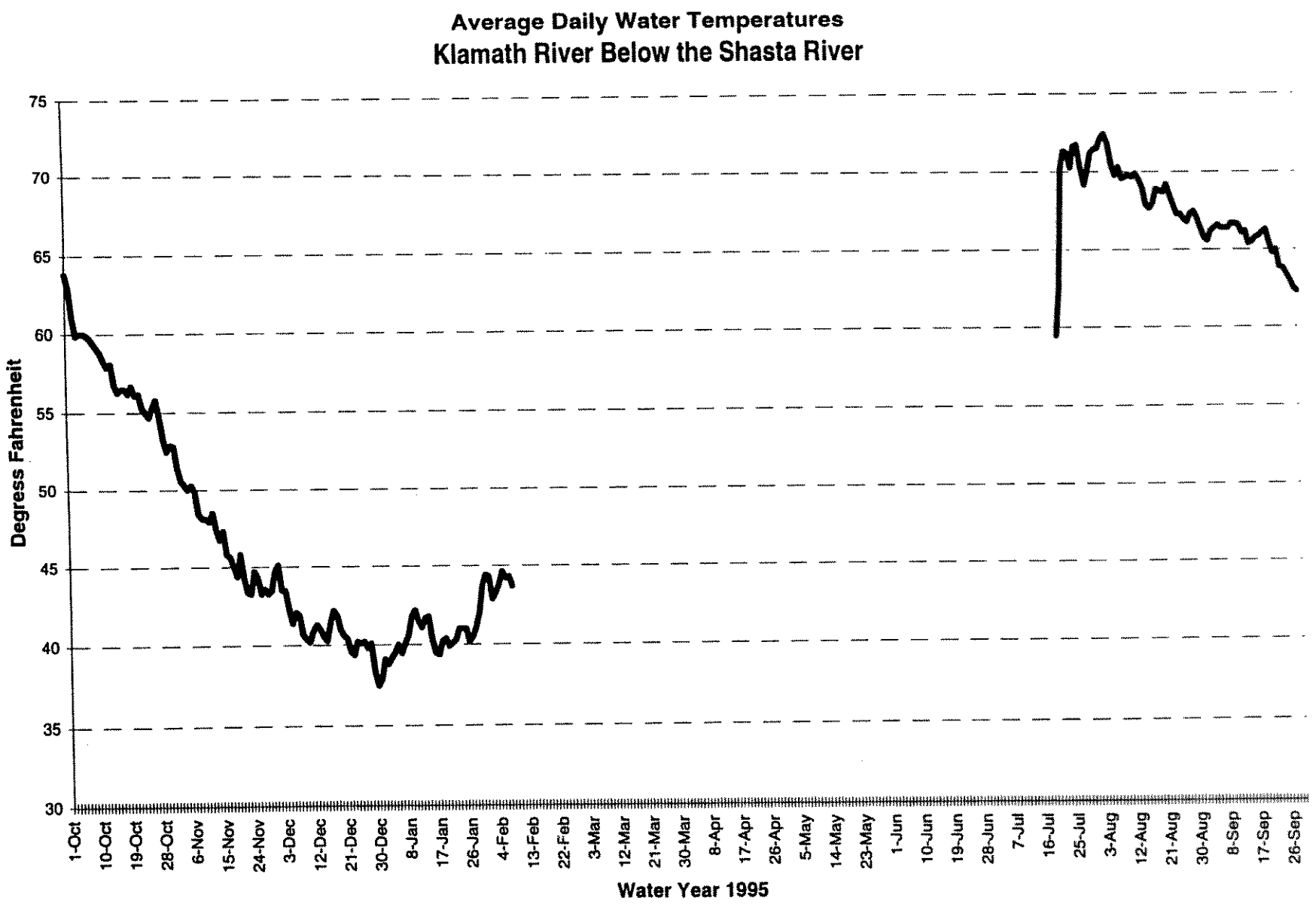

Average Daily Water Temperatures
Klamath River Above the Shasta River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.8	52.8	45.1	39.1	44.3	---	---	---	---	---	71.2	67.0
2	62.9	51.4	43.5	38.8	42.9	---	---	---	---	---	71.4	66.4
3	61.0	50.6	43.5	39.2	43.3	---	---	---	---	---	71.5	65.8
4	59.9	50.3	42.3	39.5	43.8	---	---	---	---	---	72.1	65.6
5	60.0	50.0	41.4	40.0	44.6	---	---	---	---	---	72.4	66.2
6	60.0	50.3	42.1	39.5	44.2	---	---	---	---	---	71.8	66.4
7	59.9	49.9	41.9	40.1	44.3	---	---	---	---	---	70.5	66.6
8	59.7	48.4	40.7	40.6	43.7	---	---	---	---	---	69.8	66.4
9	59.4	48.1	40.4	41.8	---	---	---	---	---	---	70.3	66.4
10	59.1	48.1	40.2	42.2	---	---	---	---	---	---	69.6	66.4
11	58.8	47.9	40.9	41.5	---	---	---	---	---	---	69.7	66.7
12	58.3	48.5	41.3	41.1	---	---	---	---	---	---	69.8	66.7
13	57.9	47.4	41.0	41.7	---	---	---	---	---	---	69.7	66.6
14	58.1	46.7	40.6	41.8	---	---	---	---	---	---	69.9	66.1
15	56.8	47.3	40.3	40.3	---	---	---	---	---	---	69.5	66.2
16	56.3	45.8	41.4	39.5	---	---	---	---	---	---	69.0	65.4
17	56.5	45.6	42.2	39.4	---	---	---	---	---	---	67.9	65.5
18	56.5	45.0	41.9	40.2	---	---	---	---	---	---	67.7	65.8
19	56.2	44.4	41.0	40.4	---	---	---	---	---	---	68.0	65.9
20	56.7	45.8	40.6	39.9	---	---	---	---	---	---	68.9	66.1
21	56.1	44.3	40.4	40.1	---	---	---	---	---	59.5	68.8	66.3
22	56.2	43.4	39.6	40.3	---	---	---	---	---	62.4	68.7	65.5
23	55.3	43.3	39.4	41.0	---	---	---	---	---	70.2	69.2	64.8
24	55.0	44.7	40.2	41.0	---	---	---	---	---	71.3	68.5	65.0
25	54.7	44.3	40.1	41.0	---	---	---	---	---	71.2	67.9	63.9
26	55.3	43.3	40.2	40.2	---	---	---	---	---	70.3	67.3	63.8
27	55.8	43.6	39.8	40.5	---	---	---	---	---	71.6	67.3	63.4
28	54.7	43.3	40.1	41.1	---	---	---	---	---	71.7	67.0	63.0
29	53.3	43.5	38.3	42.0	---	---	---	---	---	70.2	66.8	62.5
30	52.5	44.7	37.5	43.6	---	---	---	---	---	69.2	67.3	62.3
31	52.9	---	37.9	44.4	---	---	---	---	---	70.2	67.5	---
MEAN	57.4	46.8	40.8	40.7	---	---	---	---	---	---	69.3	65.5
MAX	63.8	52.8	45.1	44.4	---	---	---	---	---	---	72.4	67.0
MIN	52.5	43.3	37.5	38.8	---	---	---	---	---	---	66.8	62.3

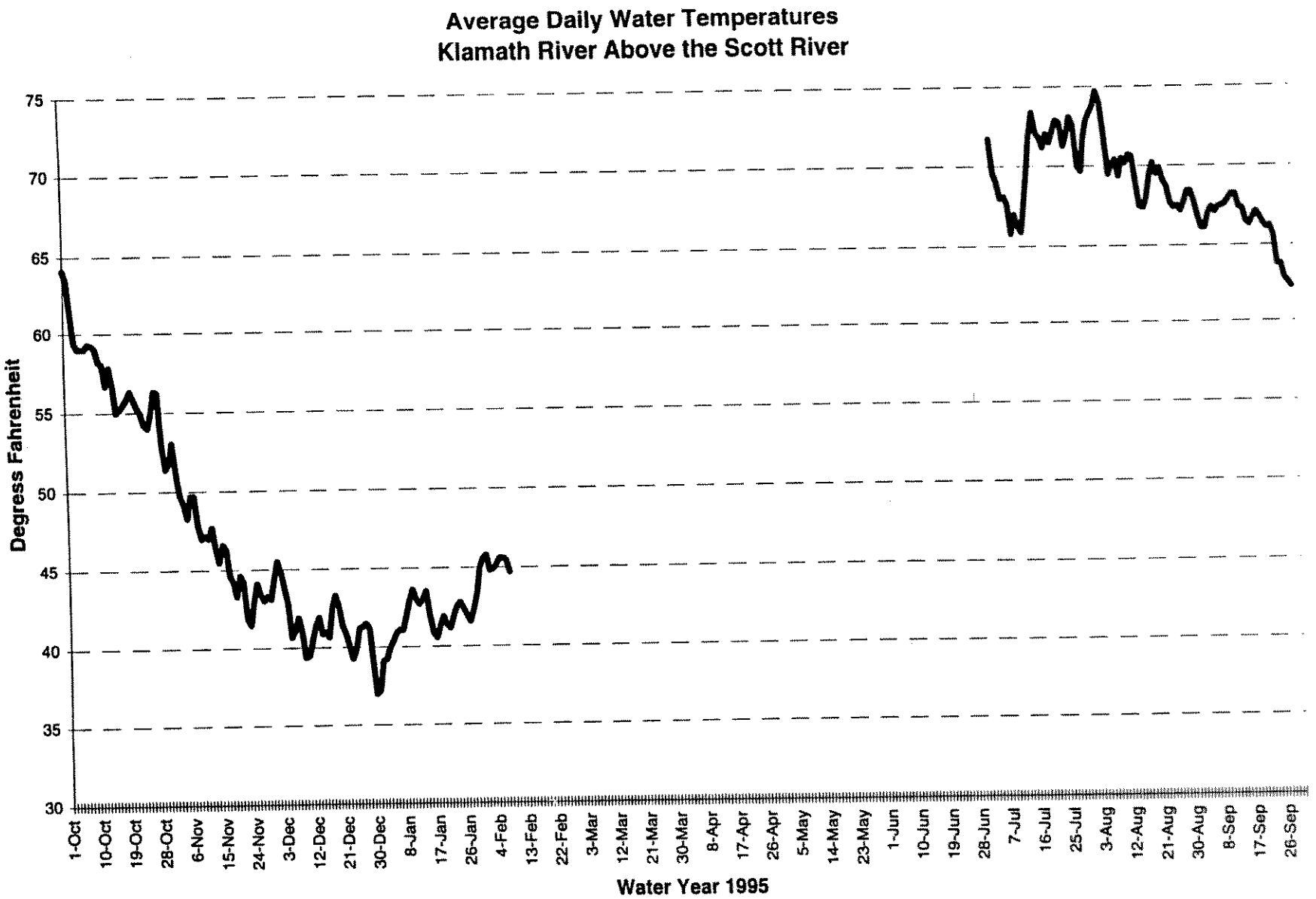

Average Daily Water Temperatures
Klamath River Below the Shasta River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Above the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64.1	53.0	45.5	39.1	45.8	---	---	---	---	---	71.8	68.4
2	63.4	51.0	44.8	39.2	44.8	---	---	---	---	---	72.9	67.7
3	61.2	49.7	43.8	39.9	44.9	---	---	---	---	---	73.4	66.8
4	59.4	49.2	42.8	40.4	45.2	---	---	---	---	71.7	73.8	66.1
5	59.0	48.3	40.7	40.9	45.6	---	---	---	---	69.6	74.7	66.1
6	59.0	49.7	41.1	41.1	45.6	---	---	---	---	69.0	74.0	67.0
7	59.0	49.7	41.9	41.1	45.4	---	---	---	---	68.0	71.9	67.4
8	59.3	47.8	41.0	42.0	44.7	---	---	---	---	68.1	69.5	67.1
9	59.2	47.0	39.4	42.9	---	---	---	---	---	67.6	70.1	67.4
10	59.0	47.2	39.5	43.6	---	---	---	---	---	65.8	70.4	67.5
11	58.2	47.0	40.5	43.0	---	---	---	---	---	67.0	69.4	67.6
12	58.0	47.7	41.4	42.7	---	---	---	---	---	66.2	70.5	67.9
13	56.7	46.4	41.9	43.0	---	---	---	---	---	65.9	70.2	68.2
14	57.8	45.5	40.9	43.5	---	---	---	---	---	67.9	70.7	68.2
15	56.7	46.6	41.0	42.0	---	---	---	---	---	70.0	70.6	67.4
16	55.0	46.3	40.7	40.9	---	---	---	---	---	72.1	69.0	67.3
17	55.2	44.6	42.5	40.6	---	---	---	---	---	73.4	67.5	66.5
18	55.5	44.2	43.3	41.3	---	---	---	---	---	72.1	67.4	66.3
19	55.8	43.3	42.6	41.9	---	---	---	---	---	71.8	68.0	66.7
20	56.3	44.6	41.4	41.4	---	---	---	---	---	71.2	69.4	67.1
21	55.8	44.2	40.9	41.2	---	---	---	---	---	72.0	70.2	66.8
22	55.3	41.9	40.1	41.9	---	---	---	---	---	71.5	69.5	66.4
23	54.9	41.5	39.3	42.5	---	---	---	---	---	72.2	69.9	66.1
24	54.2	43.0	39.9	42.8	---	---	---	---	---	72.9	69.1	66.2
25	54.0	44.1	41.2	42.4	---	---	---	---	---	72.7	68.7	65.6
26	54.9	43.4	41.3	42.0	---	---	---	---	---	71.3	67.7	63.8
27	56.3	43.0	41.5	41.6	---	---	---	---	---	71.9	67.4	63.8
28	56.2	43.3	41.2	42.3	---	---	---	---	---	73.1	67.5	62.9
29	52.9	43.1	39.0	43.3	---	---	---	---	---	72.6	67.2	62.6
30	51.4	44.4	37.0	45.0	---	---	---	---	---	70.0	67.7	62.3
31	51.7	---	37.2	45.6	---	---	---	---	---	69.7	68.4	---
MEAN	56.9	46.0	41.1	42.0	---	---	---	---	---	---	70.0	66.4
MAX	64.1	53.0	45.5	45.6	---	---	---	---	---	---	74.7	68.4
MIN	51.4	41.5	37.0	39.1	---	---	---	---	---	---	67.2	62.3

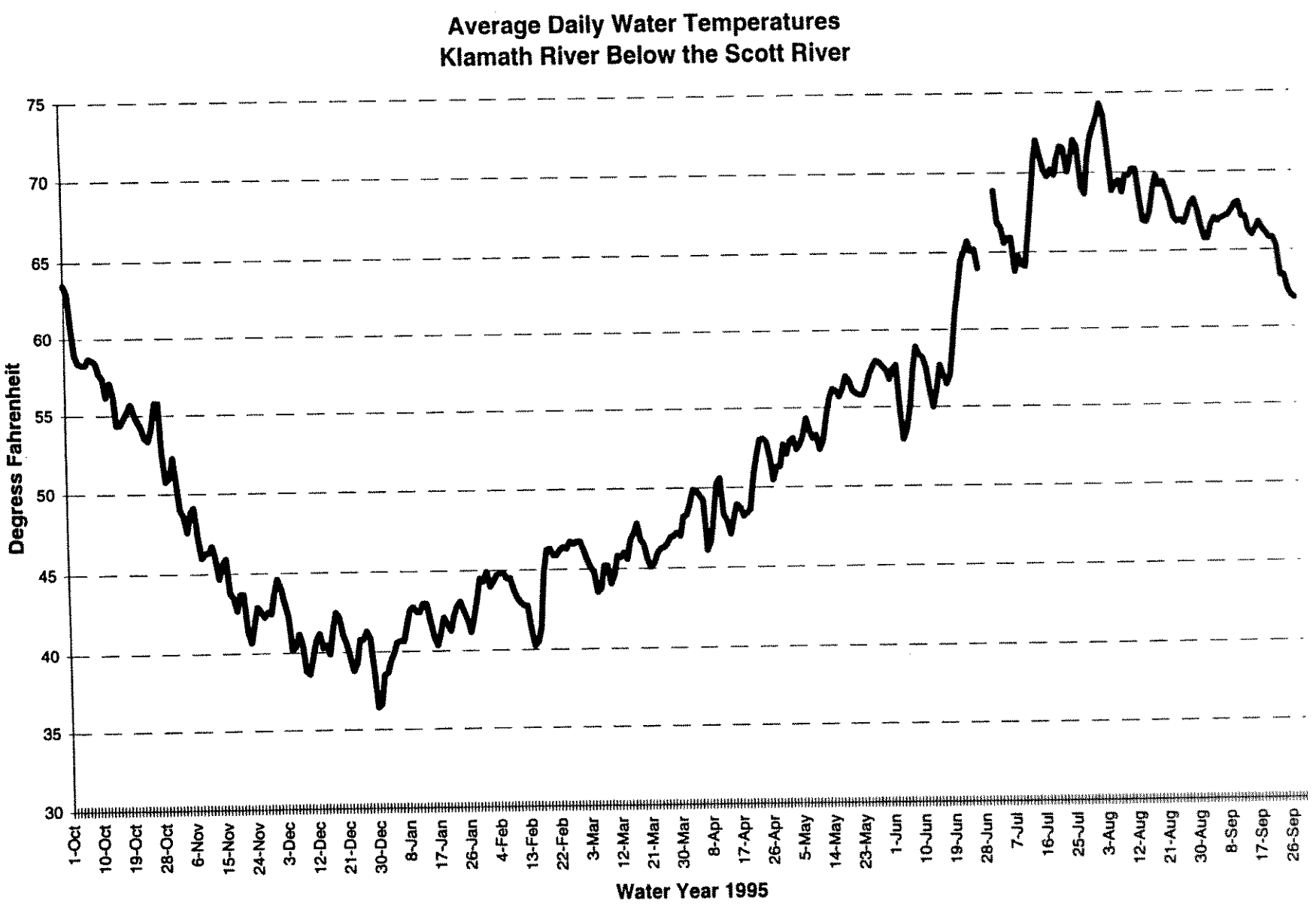

Average Daily Water Temperatures
Klamath River Above the Scott River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.5	52.3	44.6	38.5	44.9	46.7	48.2	52.7	57.4	---	70.8	68.3
2	63.0	50.7	44.1	38.6	44.0	46.2	48.3	52.1	56.8	---	72.1	67.6
3	60.7	49.0	43.2	39.4	44.3	45.6	49.0	52.9	57.5	---	72.8	66.6
4	58.9	48.6	42.3	39.9	44.7	45.1	49.9	53.1	57.7	68.9	73.4	65.8
5	58.4	47.6	40.2	40.6	44.8	44.8	49.8	52.4	54.9	66.9	74.3	65.8
6	58.3	48.8	40.4	40.7	44.8	43.6	49.5	52.7	53.0	66.6	73.6	66.7
7	58.3	49.1	41.2	40.7	44.5	43.8	49.2	53.3	53.6	65.6	71.4	67.1
8	58.7	47.3	40.5	41.7	44.5	45.2	46.1	54.3	55.0	65.9	68.9	66.9
9	58.6	46.0	38.8	42.6	43.8	45.2	46.6	53.6	57.5	65.9	69.3	67.1
10	58.4	46.3	38.6	42.8	43.3	44.1	48.3	53.1	58.9	63.8	69.5	67.2
11	57.7	46.3	39.7	42.5	43.0	44.6	50.3	53.3	58.4	64.8	68.8	67.3
12	57.4	46.7	40.8	42.5	42.8	45.8	50.6	52.4	58.2	64.2	69.8	67.6
13	56.2	45.9	41.2	43.0	42.8	45.7	48.3	52.9	57.5	64.1	69.8	68.0
14	57.1	44.7	40.3	43.0	41.3	46.0	47.9	54.4	56.1	66.2	70.2	68.1
15	56.3	45.6	40.5	41.9	40.3	45.6	47.1	55.6	55.0	68.5	70.2	67.2
16	54.4	45.9	39.9	40.9	40.5	46.8	48.1	56.2	56.1	70.6	68.5	67.2
17	54.4	43.8	41.5	40.4	41.5	47.2	48.9	56.1	57.7	72.0	67.0	66.3
18	54.8	43.5	42.5	41.2	44.8	47.8	48.7	55.7	57.1	71.1	66.9	66.0
19	55.2	42.7	42.2	42.1	46.2	46.8	48.2	56.2	56.5	70.2	67.5	66.4
20	55.7	43.7	41.1	41.7	46.3	46.5	48.4	57.0	57.0	69.8	68.9	66.8
21	55.1	43.7	40.5	41.3	45.9	45.6	48.6	56.7	58.9	70.2	69.8	66.4
22	54.6	41.4	39.7	42.2	45.9	45.1	50.7	56.1	61.3	69.9	69.2	66.1
23	54.2	40.7	38.8	42.8	46.2	45.3	52.0	55.9	62.8	70.9	69.4	65.8
24	53.6	41.9	39.3	43.1	46.4	45.9	53.0	55.8	64.5	71.6	68.8	65.8
25	53.4	42.9	40.8	42.5	46.3	46.2	53.1	55.8	65.1	71.5	68.2	65.3
26	54.2	42.6	40.8	42.0	46.7	46.3	52.9	56.3	65.7	70.1	67.2	63.4
27	55.8	42.3	41.3	41.2	46.6	46.5	51.9	57.1	65.1	70.8	66.9	63.4
28	55.8	42.6	40.9	42.1	46.7	46.9	50.5	57.6	65.2	72.0	67.0	62.5
29	52.5	42.5	38.7	43.2	---	47.0	51.3	58.0	64.0	71.6	66.8	62.1
30	50.8	43.7	36.4	44.5	---	47.2	51.3	57.9	---	69.1	67.3	61.9
31	51.0	---	36.6	44.3	---	47.0	---	57.6	---	68.7	68.0	---
MEAN	56.4	45.3	40.5	41.7	44.4	45.9	49.5	55.0	---	---	69.4	66.1
MAX	63.5	52.3	44.6	44.5	46.7	47.8	53.1	58.0	---	---	74.3	68.3
MIN	50.8	40.7	36.4	38.5	40.3	43.6	46.1	52.1	---	---	66.8	61.9

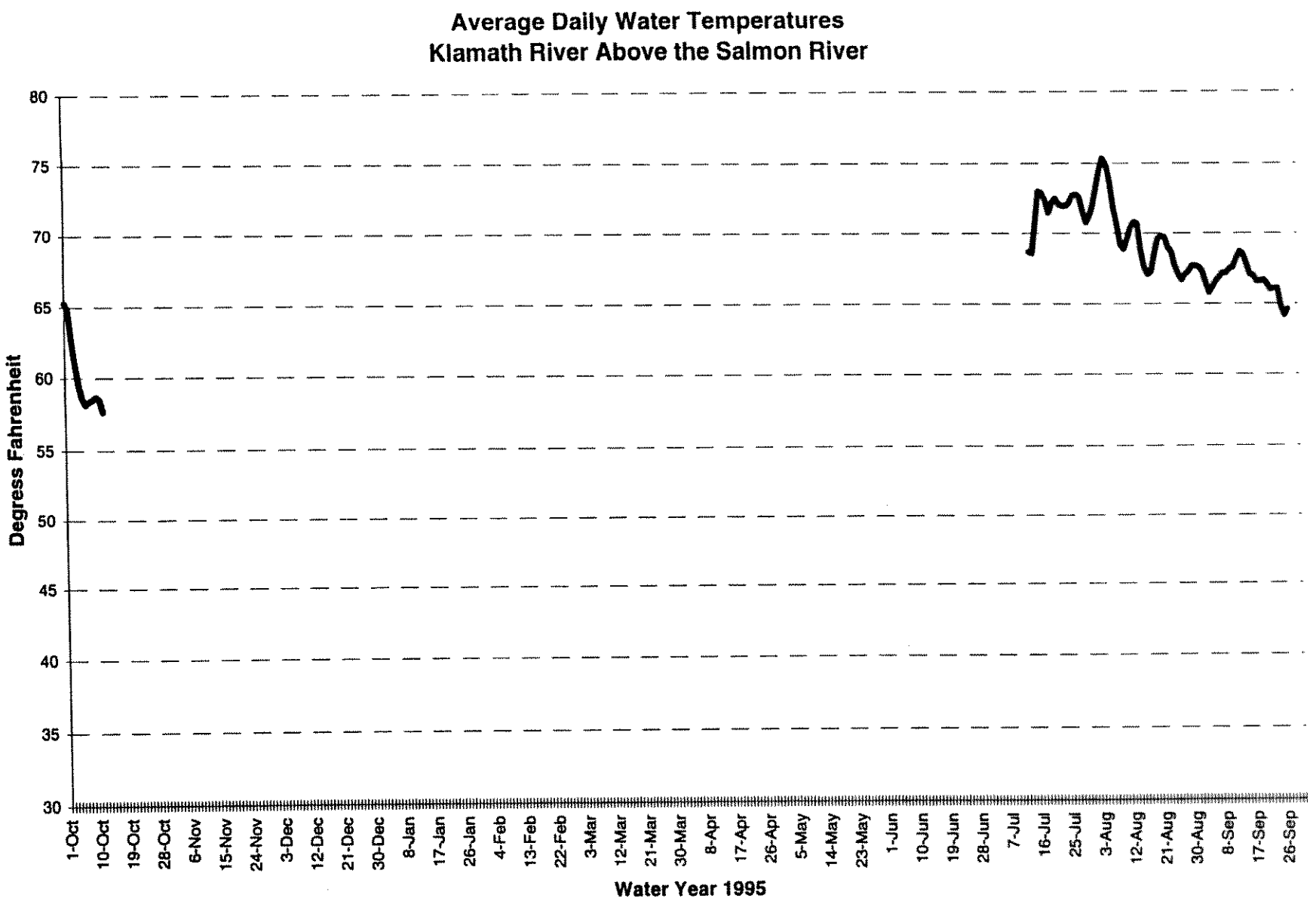

Average Daily Water Temperatures
Klamath River Below the Scott River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Above the Salmon River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.3	---	---	---	---	---	---	---	---	---	71.3	67.7
2	64.8	---	---	---	---	---	---	---	---	---	72.1	67.6
3	62.6	---	---	---	---	---	---	---	---	---	73.3	67.3
4	60.9	---	---	---	---	---	---	---	---	---	74.5	66.5
5	59.5	---	---	---	---	---	---	---	---	---	75.3	65.8
6	58.6	---	---	---	---	---	---	---	---	---	74.9	66.2
7	58.2	---	---	---	---	---	---	---	---	---	73.7	66.6
8	58.4	---	---	---	---	---	---	---	---	---	71.8	66.9
9	58.5	---	---	---	---	---	---	---	---	---	70.6	67.2
10	58.7	---	---	---	---	---	---	---	---	---	69.2	67.2
11	58.5	---	---	---	---	---	---	---	---	---	68.9	67.5
12	57.7	---	---	---	---	---	---	---	---	---	69.6	67.6
13	---	---	---	---	---	---	---	---	---	---	70.4	68.2
14	---	---	---	---	---	---	---	---	---	68.7	70.8	68.7
15	---	---	---	---	---	---	---	---	---	68.6	70.7	68.5
16	---	---	---	---	---	---	---	---	---	70.9	68.8	67.8
17	---	---	---	---	---	---	---	---	---	73.0	67.6	67.1
18	---	---	---	---	---	---	---	---	---	72.9	67.1	67.0
19	---	---	---	---	---	---	---	---	---	72.4	67.3	66.6
20	---	---	---	---	---	---	---	---	---	71.5	68.6	66.6
21	---	---	---	---	---	---	---	---	---	72.2	69.6	66.7
22	---	---	---	---	---	---	---	---	---	72.5	69.8	66.4
23	---	---	---	---	---	---	---	---	---	72.1	69.7	66.0
24	---	---	---	---	---	---	---	---	---	72.0	69.0	66.1
25	---	---	---	---	---	---	---	---	---	72.0	68.7	66.1
26	---	---	---	---	---	---	---	---	---	72.2	67.7	64.8
27	---	---	---	---	---	---	---	---	---	72.7	67.1	64.2
28	---	---	---	---	---	---	---	---	---	72.8	66.7	64.6
29	---	---	---	---	---	---	---	---	---	72.6	67.1	---
30	---	---	---	---	---	---	---	---	---	71.6	67.3	---
31	---	---	---	---	---	---	---	---	---	70.8	67.7	---
MEAN	---	---	---	---	---	---	---	---	---	---	69.9	---
MAX	---	---	---	---	---	---	---	---	---	---	75.3	---
MIN	---	---	---	---	---	---	---	---	---	---	66.7	---

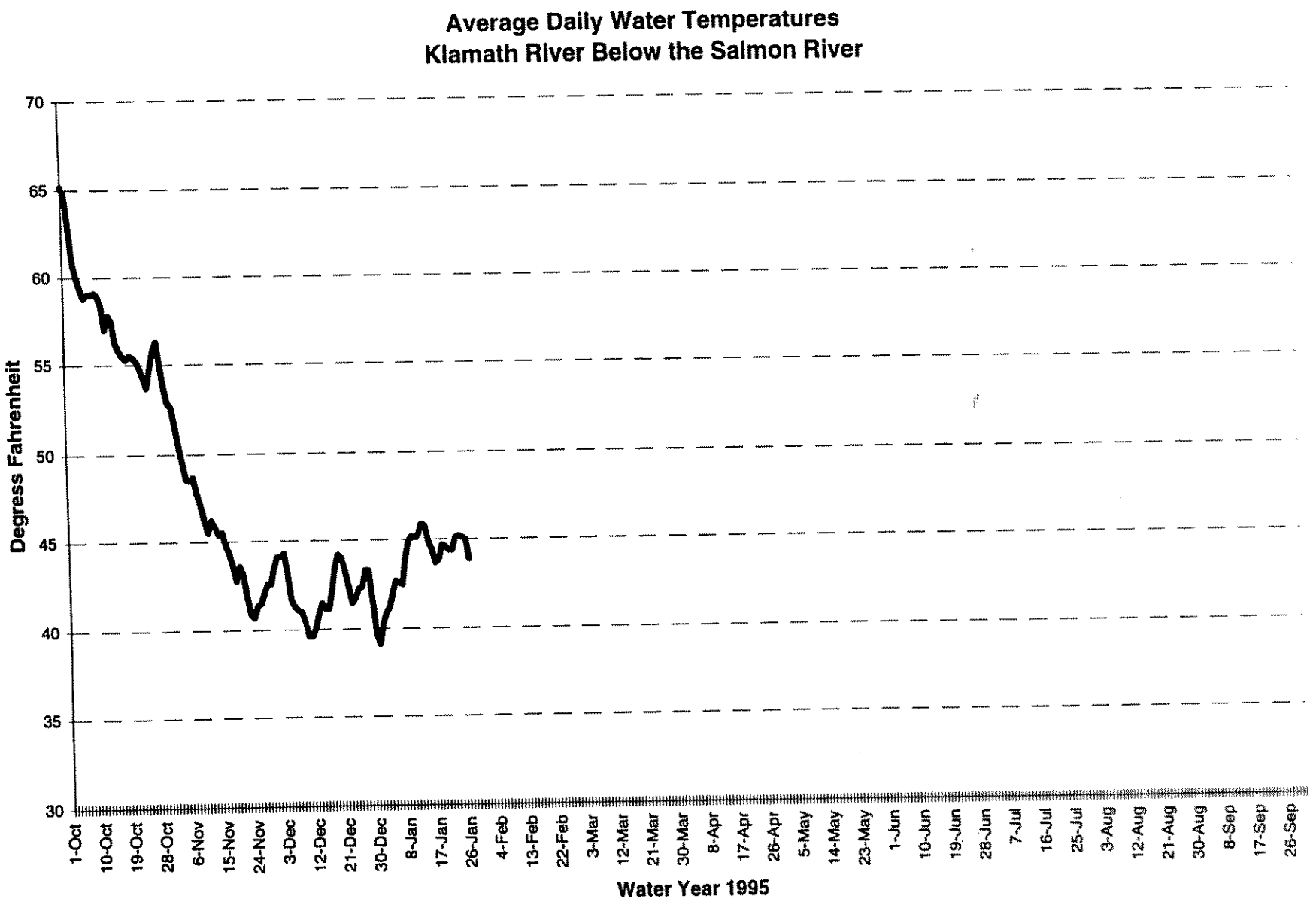

Average Daily Water Temperatures
Klamath River Above the Salmon River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Below the Salmon River
Humboldt County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65.2	52.6	44.1	40.3	---	---	---	---	---	---	---	---
2	64.7	51.6	44.1	40.9	---	---	---	---	---	---	---	---
3	62.7	50.5	44.3	41.2	---	---	---	---	---	---	---	---
4	60.8	49.6	43.2	42.0	---	---	---	---	---	---	---	---
5	60.0	48.6	41.7	42.7	---	---	---	---	---	---	---	---
6	59.3	48.5	41.3	42.6	---	---	---	---	---	---	---	---
7	58.8	48.7	41.1	42.5	---	---	---	---	---	---	---	---
8	59.0	47.8	41.0	44.0	---	---	---	---	---	---	---	---
9	59.0	47.1	40.4	44.9	---	---	---	---	---	---	---	---
10	59.1	46.2	39.6	45.2	---	---	---	---	---	---	---	---
11	58.9	45.5	39.6	45.1	---	---	---	---	---	---	---	---
12	58.3	46.2	40.1	45.3	---	---	---	---	---	---	---	---
13	57.0	45.8	40.9	45.9	---	---	---	---	---	---	---	---
14	57.8	45.4	41.5	45.8	---	---	---	---	---	---	---	---
15	57.5	45.5	41.2	44.9	---	---	---	---	---	---	---	---
16	56.3	44.8	41.2	44.4	---	---	---	---	---	---	---	---
17	55.8	44.3	42.2	43.7	---	---	---	---	---	---	---	---
18	55.5	43.6	43.5	43.9	---	---	---	---	---	---	---	---
19	55.3	42.8	44.2	44.7	---	---	---	---	---	---	---	---
20	55.5	43.6	44.0	44.6	---	---	---	---	---	---	---	---
21	55.4	43.1	43.3	44.4	---	---	---	---	---	---	---	---
22	55.2	41.9	42.4	44.4	---	---	---	---	---	---	---	---
23	54.8	40.9	41.5	45.1	---	---	---	---	---	---	---	---
24	54.3	40.7	41.8	45.2	---	---	---	---	---	---	---	---
25	53.7	41.4	42.3	45.1	---	---	---	---	---	---	---	---
26	54.8	41.5	42.4	45.0	---	---	---	---	---	---	---	---
27	55.8	42.1	43.3	43.9	---	---	---	---	---	---	---	---
28	56.3	42.6	43.3	---	---	---	---	---	---	---	---	---
29	55.0	42.6	41.6	---	---	---	---	---	---	---	---	---
30	53.7	43.5	39.7	---	---	---	---	---	---	---	---	---
31	52.8	---	39.1	---	---	---	---	---	---	---	---	---
MEAN	57.4	45.3	41.9	---	---	---	---	---	---	---	---	---
MAX	65.2	52.6	44.3	---	---	---	---	---	---	---	---	---
MIN	52.8	40.7	39.1	---	---	---	---	---	---	---	---	---

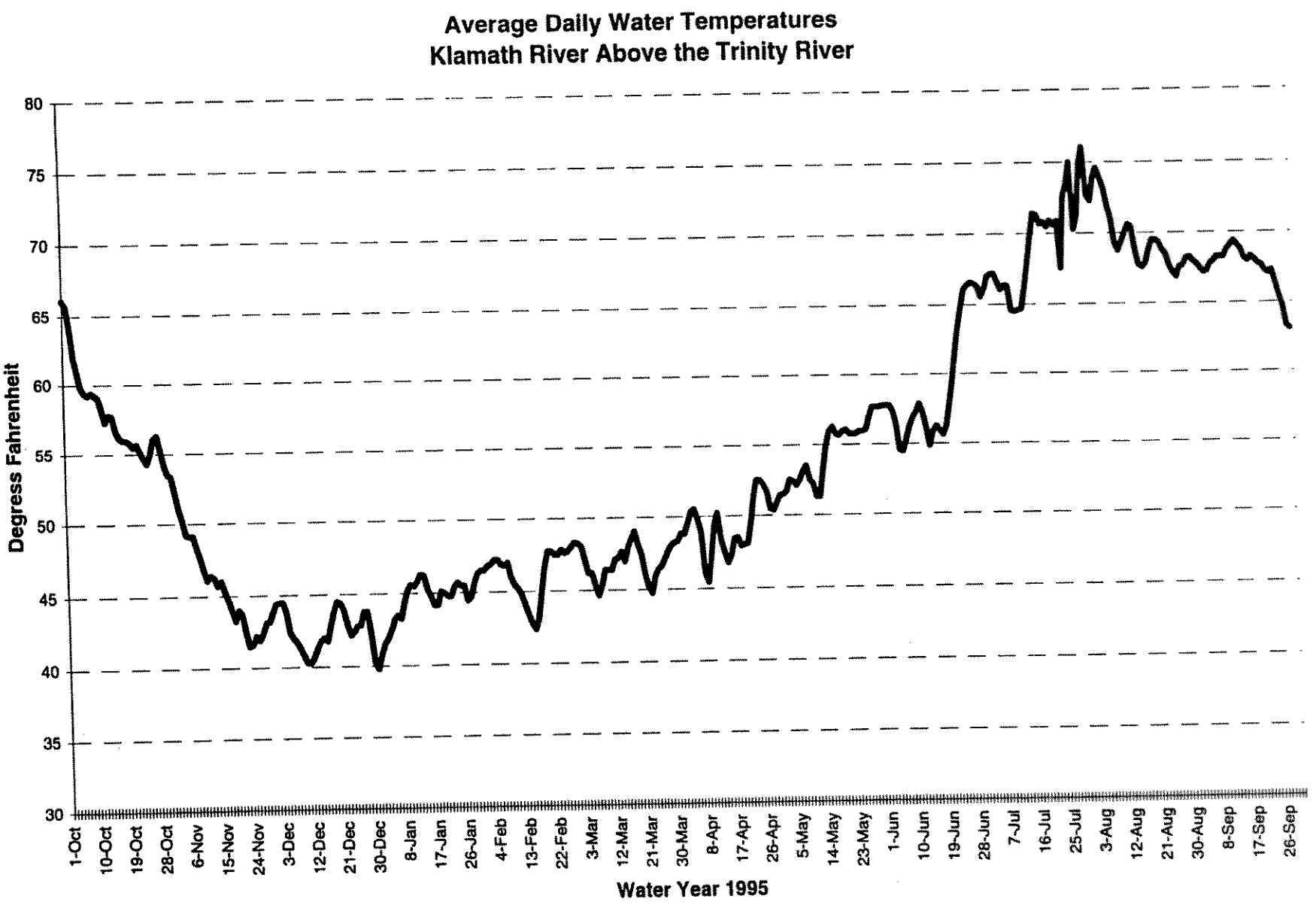

Average Daily Water Temperatures
Klamath River Below the Salmon River
Degress Fahrenheit
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River Above the Trinity River
Humboldt County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.1	53.3	44.4	40.8	46.5	48.2	48.8	51.4	57.8	65.6	76.0	68.3
2	65.7	52.2	44.5	41.5	46.8	48.0	48.8	51.5	57.8	66.1	72.7	68.0
3	64.1	51.0	44.5	41.9	46.9	47.1	49.5	51.7	57.8	67.0	72.3	67.8
4	62.0	50.2	43.8	42.5	47.2	46.2	50.3	52.5	57.4	67.2	73.9	67.5
5	60.9	49.2	42.4	43.2	47.2	46.2	50.5	52.4	56.4	67.2	74.6	67.2
6	59.8	49.1	42.0	43.5	46.9	45.4	49.8	52.1	54.6	66.6	73.9	67.3
7	59.4	49.1	41.7	43.3	46.8	44.7	48.9	52.5	54.5	66.1	73.2	67.8
8	59.2	48.3	41.3	44.4	47.0	45.4	46.1	53.1	55.4	66.4	71.9	68.0
9	59.4	47.6	40.8	45.2	46.0	46.4	45.5	53.5	56.3	66.3	71.0	68.3
10	59.2	46.8	40.3	45.6	45.5	46.4	47.3	52.5	56.9	64.6	69.3	68.3
11	59.0	46.1	40.3	45.5	45.2	46.4	49.4	52.2	57.3	64.5	68.8	68.3
12	58.2	46.4	40.7	45.8	44.8	47.1	50.2	51.3	57.9	64.6	69.4	68.8
13	57.3	46.2	41.3	46.3	44.1	47.2	48.3	51.3	57.3	64.7	70.0	69.1
14	57.8	45.7	41.8	46.2	43.4	47.6	47.5	53.3	56.2	66.2	70.6	69.4
15	57.7	46.0	42.0	45.3	42.8	47.0	46.8	55.0	54.9	67.9	70.4	69.1
16	56.7	45.3	41.8	44.8	42.4	47.9	47.3	56.0	55.9	69.7	68.9	68.8
17	56.2	44.7	42.9	44.2	43.2	48.5	48.4	56.3	56.3	71.4	67.8	68.2
18	56.0	44.0	43.8	44.2	45.0	49.0	48.5	55.8	56.0	71.3	67.6	68.0
19	56.0	43.3	44.5	45.1	46.7	48.1	47.9	55.7	55.7	70.7	67.9	68.3
20	55.8	44.0	44.4	45.0	47.7	47.4	48.0	56.0	56.3	70.8	68.8	68.1
21	55.5	43.7	43.9	44.8	47.7	46.1	48.1	56.1	57.9	70.5	69.5	67.8
22	55.7	42.4	42.9	44.8	47.5	45.2	49.5	55.8	59.7	70.9	69.5	67.7
23	55.2	41.5	42.2	45.4	47.5	44.8	51.3	55.8	61.8	70.6	69.3	67.3
24	54.7	41.6	42.4	45.7	47.8	45.9	52.5	55.8	63.5	70.9	68.8	67.1
25	54.3	42.2	42.8	45.5	47.6	46.4	52.5	56.0	64.9	67.6	68.5	67.3
26	55.0	41.9	42.9	45.5	47.7	46.6	52.2	56.0	66.1	72.6	67.7	66.4
27	56.1	42.4	43.8	44.5	48.0	47.1	51.7	56.1	66.4	73.4	67.2	65.5
28	56.3	43.1	43.8	44.7	48.3	47.6	50.5	57.0	66.6	75.0	66.9	64.7
29	55.3	43.2	42.2	45.7	---	48.0	50.4	57.7	66.5	70.3	67.6	63.3
30	54.2	43.8	40.3	46.3	---	48.2	50.9	57.7	66.3	71.3	67.7	63.1
31	53.5	---	39.8	46.5	---	48.3	---	57.7	---	75.0	68.2	---
MEAN	57.8	45.8	42.5	44.6	46.2	46.9	49.3	54.5	59.0	68.8	70.0	67.5
MAX	66.1	53.3	44.5	46.5	48.3	49.0	52.5	57.7	66.6	75.0	76.0	69.4
MIN	53.5	41.5	39.8	40.8	42.4	44.7	45.5	51.3	54.5	64.5	66.9	63.1

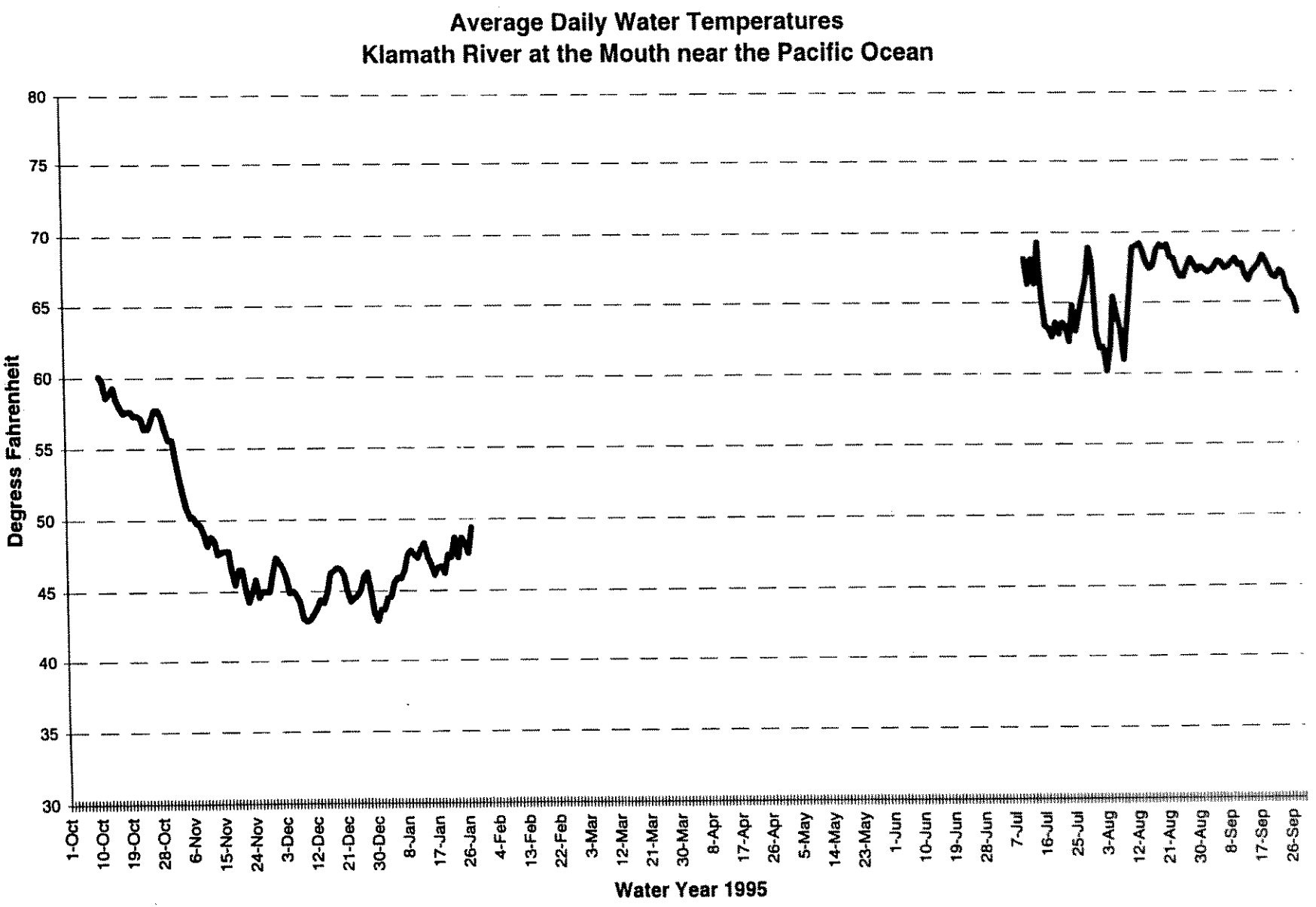

Average Daily Water Temperatures
Klamath River Above the Trinity River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

WATER YEAR - 1995

Water Temperatures, Klamath River Basin
Klamath River at the Mouth near the Pacific Ocean
Del Norte County California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1994 to September 1995
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	55.6	47.3	43.7	---	---	---	---	---	---	67.8	67.2
2	---	54.3	47.0	43.7	---	---	---	---	---	---	62.9	67.5
3	---	53.0	46.6	44.5	---	---	---	---	---	---	61.8	67.3
4	---	51.9	45.9	44.6	---	---	---	---	---	---	61.9	67.1
5	---	50.9	44.9	45.6	---	---	---	---	---	---	60.2	67.2
6	---	50.3	45.0	45.9	---	---	---	---	---	---	61.8	67.5
7	---	50.2	44.7	45.9	---	---	---	---	---	---	65.4	67.9
8	---	49.8	44.2	46.4	---	---	---	---	---	---	64.2	67.8
9	---	49.6	43.1	47.5	---	---	---	---	---	---	63.2	67.4
10	---	49.0	42.9	47.8	---	---	---	---	---	---	61.0	67.5
11	60.1	48.2	43.0	47.5	---	---	---	---	---	---	63.5	67.8
12	59.7	48.8	43.4	47.3	---	---	---	---	---	68.1	66.0	68.1
13	58.6	48.5	43.8	47.9	---	---	---	---	---	66.3	68.9	67.6
14	58.9	47.6	44.4	48.3	---	---	---	---	---	68.1	69.0	67.7
15	59.3	47.7	44.2	47.3	---	---	---	---	---	66.3	69.2	66.9
16	58.4	47.8	44.9	46.8	---	---	---	---	---	69.3	68.6	66.5
17	57.9	47.8	46.2	46.1	---	---	---	---	---	65.5	67.8	67.1
18	57.5	46.4	46.4	46.6	---	---	---	---	---	63.4	67.4	67.4
19	57.6	45.5	46.6	46.7	---	---	---	---	---	63.2	67.6	67.7
20	57.6	46.5	46.5	46.2	---	---	---	---	---	62.6	68.7	68.3
21	57.3	46.5	46.1	47.5	---	---	---	---	---	63.6	69.1	67.9
22	57.3	45.2	45.0	47.3	---	---	---	---	---	62.8	68.9	67.3
23	57.1	44.3	44.3	48.7	---	---	---	---	---	63.6	69.1	66.8
24	56.4	45.0	44.5	47.3	---	---	---	---	---	63.3	68.2	66.7
25	56.4	45.8	44.7	48.7	---	---	---	---	---	62.3	68.1	67.2
26	57.0	44.6	45.1	48.3	---	---	---	---	---	64.8	67.3	67.0
27	57.7	45.0	46.0	47.6	---	---	---	---	---	63.0	66.8	65.9
28	57.7	45.0	46.3	49.4	---	---	---	---	---	64.3	66.8	65.6
29	57.2	45.0	44.9	---	---	---	---	---	---	65.5	67.5	65.2
30	56.3	46.3	43.4	---	---	---	---	---	---	66.5	68.1	64.3
31	55.6	---	42.9	---	---	---	---	---	---	68.9	67.7	---
MEAN	---	48.1	45.0	---	---	---	---	---	---	---	66.3	67.1
MAX	---	55.6	47.3	---	---	---	---	---	---	---	69.2	68.3
MIN	---	44.3	42.9	---	---	---	---	---	---	---	60.2	64.3


Average Daily Water Temperatures
Klamath River at the Mouth near the Pacific Ocean
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1995

Appendix D

Water Temperature Monitoring of the Klamath River Mainstem

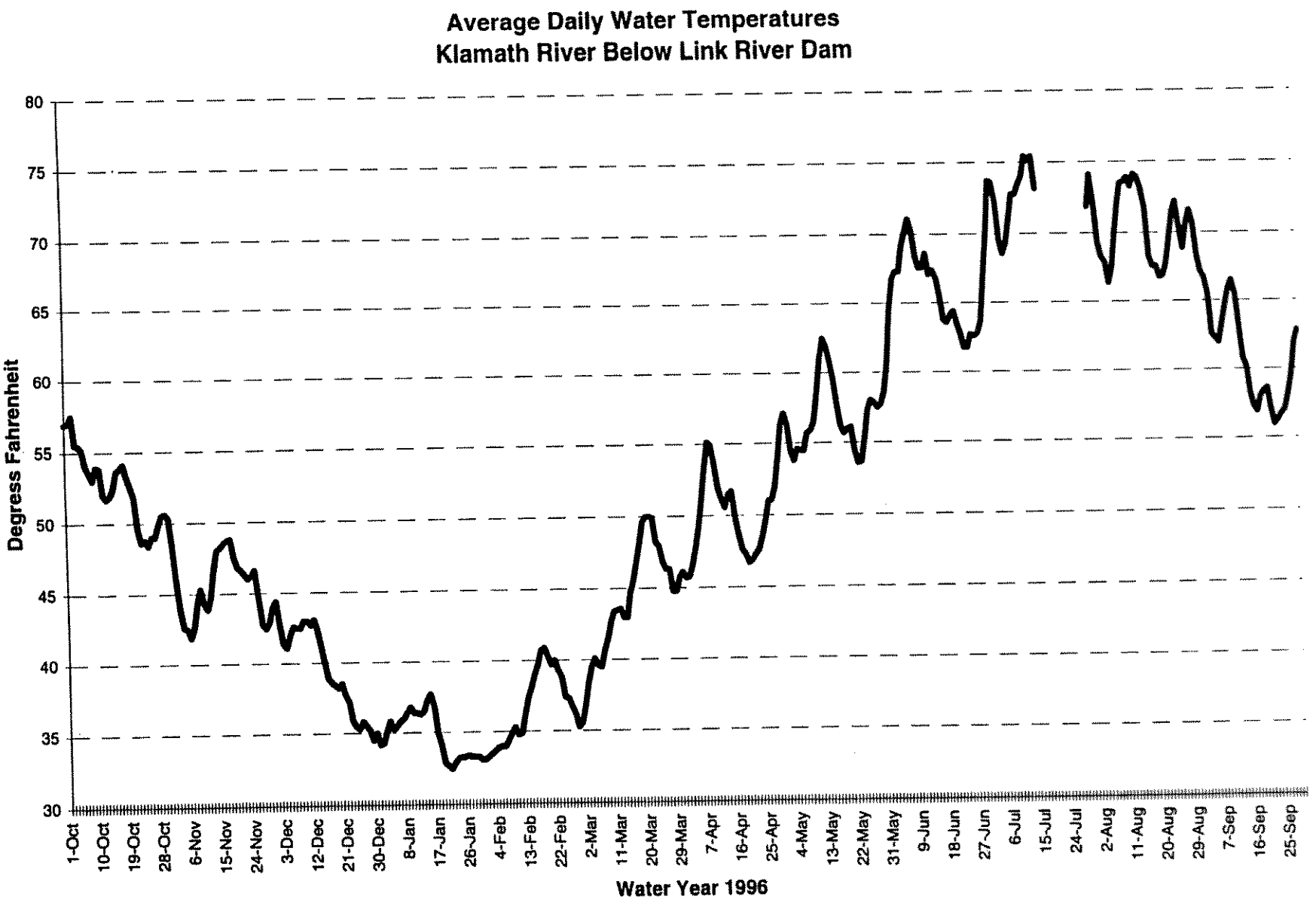
1996 Water Year

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below Link River Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56.9	48.4	44.4	34.3	33.3	36.8	45.7	57.1	60.8	70.0	74.1	68.4
2	57.0	45.8	42.7	35.1	33.5	38.4	45.8	56.3	64.7	73.7	72.2	67.2
3	57.5	43.8	41.4	35.8	33.7	39.5	46.6	54.5	66.8	73.6	69.3	66.7
4	55.5	42.6	41.1	35.2	33.9	40.1	47.8	53.8	67.3	72.3	68.3	65.5
5	55.4	42.5	42.0	35.5	34.0	39.6	49.3	54.6	67.3	69.5	67.9	62.6
6	55.1	41.9	42.6	35.8	34.0	39.5	51.2	54.5	69.2	68.6	66.4	62.3
7	54.0	42.7	42.5	36.0	34.4	40.7	53.3	54.5	70.1	69.4	67.5	62.0
8	53.5	44.4	42.5	36.4	34.9	41.5	55.1	55.7	71.1	71.2	70.1	63.3
9	53.0	45.3	43.0	36.8	35.3	42.7	54.9	55.9	70.3	72.8	72.1	64.7
10	53.9	44.3	43.0	36.4	34.8	43.4	53.6	56.5	68.5	72.8	73.5	65.9
11	53.8	43.9	42.7	36.4	34.9	43.5	52.0	58.6	67.6	73.5	73.6	66.5
12	52.0	44.8	43.1	36.3	36.2	43.6	51.2	61.1	67.6	74.0	73.9	65.5
13	51.7	46.7	42.3	36.5	37.4	43.0	50.6	62.5	68.6	75.4	73.3	63.1
14	51.9	48.0	41.2	37.3	38.1	43.0	51.5	61.9	67.1	75.1	74.1	60.8
15	52.4	48.2	40.0	37.7	39.0	44.7	51.7	60.8	67.4	75.4	73.9	60.2
16	53.6	48.5	38.9	36.8	39.7	45.5	49.8	59.5	66.8	73.2	73.2	58.3
17	53.8	48.7	38.6	35.0	40.7	46.7	48.6	57.7	65.5	---	71.8	57.3
18	54.1	48.8	38.4	34.1	40.9	48.0	47.6	56.2	63.8	---	68.3	56.9
19	53.2	47.5	38.2	32.9	40.3	49.6	47.3	55.7	63.6	---	67.6	58.0
20	52.5	46.8	38.5	32.7	39.7	50.0	46.7	56.0	64.1	---	67.6	58.4
21	51.8	46.6	37.7	32.5	40.0	50.0	46.9	56.1	64.4	---	66.8	58.6
22	49.5	46.3	37.2	32.9	39.3	49.9	47.3	54.5	63.5	---	66.9	57.1
23	48.6	46.0	35.9	33.2	38.8	48.2	47.6	53.6	62.8	---	67.8	56.0
24	48.8	46.2	35.5	33.3	37.4	47.9	48.5	53.7	61.8	---	69.6	56.3
25	48.4	46.6	35.3	33.3	37.3	46.8	49.6	55.3	61.8	---	71.5	56.7
26	49.0	44.7	35.8	33.4	36.7	46.3	51.0	57.3	62.7	---	72.2	57.0
27	49.0	42.8	35.5	33.3	36.2	46.3	51.1	58.0	62.6	---	70.4	58.1
28	49.8	42.5	35.2	33.3	35.3	44.8	52.0	57.8	62.8	---	68.9	59.6
29	50.5	42.9	34.5	33.3	35.6	44.8	54.0	57.5	63.6	---	70.6	61.9
30	50.6	44.0	35.0	33.1	---	45.7	56.3	57.7	66.8	---	71.6	62.8
31	50.3	---	34.2	33.1	---	46.1	---	58.6	---	71.9	70.7	---
MEAN	52.5	45.4	39.3	34.8	36.7	44.4	50.2	56.9	65.7	---	70.5	61.3
MAX	57.5	48.8	44.4	37.7	40.9	50.0	56.3	62.5	71.1	---	74.1	68.4
MIN	48.4	41.9	34.2	32.5	33.3	36.8	45.7	53.6	60.8	---	66.4	56.0

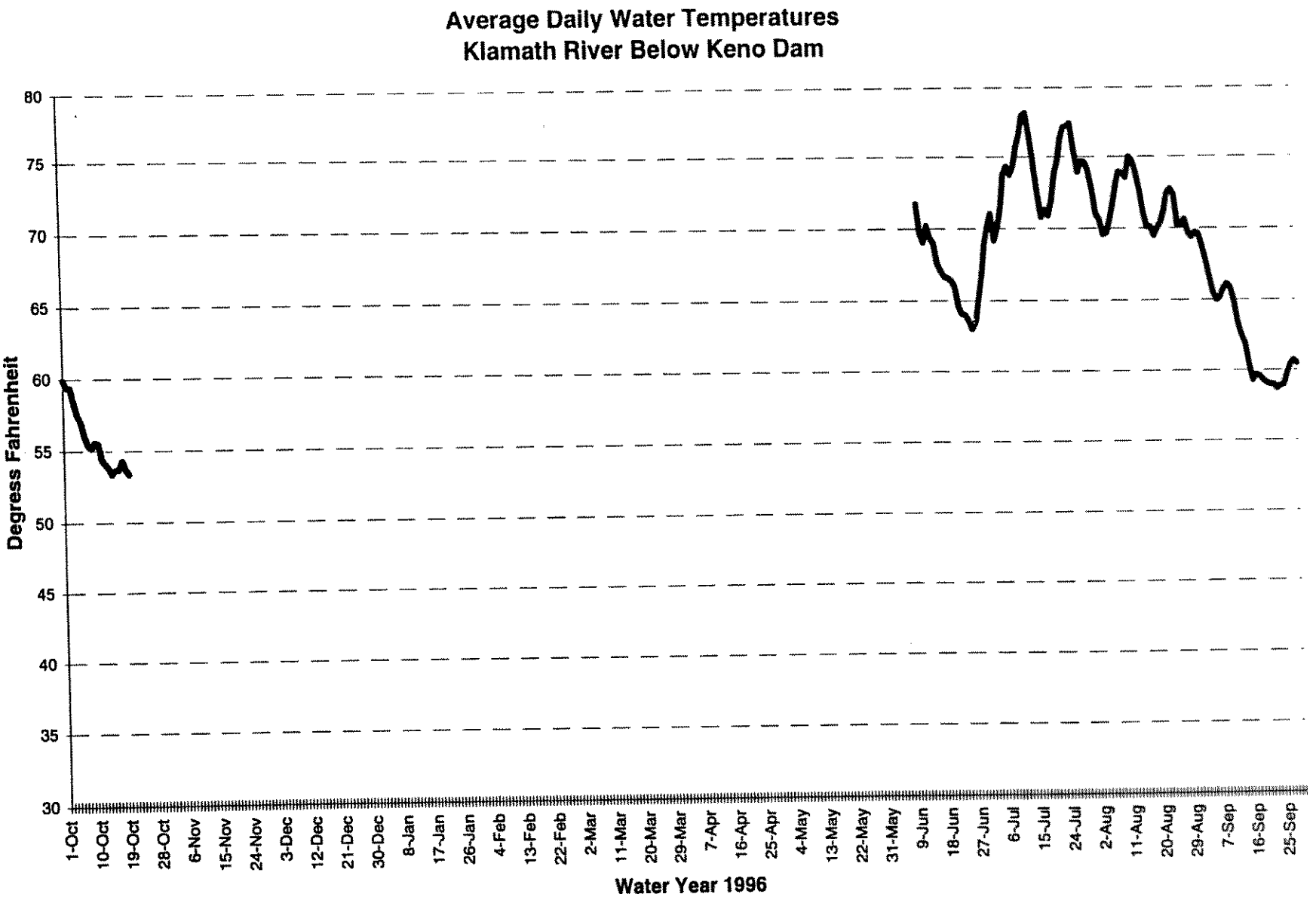

Average Daily Water Temperatures
Klamath River Below Link River Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below Keno Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.9	---	---	---	---	---	---	---	---	68.9	74.0	69.7
2	59.4	---	---	---	---	---	---	---	---	70.2	72.7	69.6
3	59.4	---	---	---	---	---	---	---	---	71.0	71.0	68.8
4	58.4	---	---	---	---	---	---	---	---	69.2	70.6	67.8
5	57.5	---	---	---	---	---	---	---	---	70.1	69.6	66.6
6	57.0	---	---	---	---	---	---	---	---	71.4	69.7	65.5
7	56.1	---	---	---	---	---	---	---	---	73.7	70.6	65.0
8	55.4	---	---	---	---	---	---	---	---	74.3	71.7	65.2
9	55.2	---	---	---	---	---	---	---	---	73.7	73.0	65.8
10	55.6	---	---	---	---	---	---	---	---	74.3	73.9	66.1
11	55.5	---	---	---	---	---	---	---	71.7	75.7	73.8	65.9
12	54.4	---	---	---	---	---	---	---	69.7	76.5	73.5	64.9
13	54.1	---	---	---	---	---	---	---	69.1	78.0	75.0	63.4
14	53.8	---	---	---	---	---	---	---	70.2	78.2	74.7	62.5
15	53.4	---	---	---	---	---	---	---	69.4	76.6	73.9	61.9
16	53.7	---	---	---	---	---	---	---	69.0	74.5	72.7	60.4
17	53.7	---	---	---	---	---	---	---	67.6	72.4	71.0	59.3
18	54.3	---	---	---	---	---	---	---	67.1	70.8	70.1	59.7
19	53.7	---	---	---	---	---	---	---	66.7	71.3	70.1	59.6
20	53.4	---	---	---	---	---	---	---	66.6	70.9	69.5	59.3
21	---	---	---	---	---	---	---	---	66.4	71.9	70.0	59.1
22	---	---	---	---	---	---	---	---	66.0	73.6	70.4	59.0
23	---	---	---	---	---	---	---	---	64.6	74.7	71.2	59.0
24	---	---	---	---	---	---	---	---	64.1	76.2	72.4	58.7
25	---	---	---	---	---	---	---	---	64.0	77.1	72.7	58.9
26	---	---	---	---	---	---	---	---	63.6	77.2	72.3	59.0
27	---	---	---	---	---	---	---	---	63.0	77.4	70.2	59.8
28	---	---	---	---	---	---	---	---	63.5	75.4	70.2	60.4
29	---	---	---	---	---	---	---	---	65.2	73.9	70.6	60.7
30	---	---	---	---	---	---	---	---	66.8	74.7	69.7	60.5
31	---	---	---	---	---	---	---	---	---	74.6	69.4	---
MEAN	---	---	---	---	---	---	---	---	---	73.8	71.6	62.7
MAX	---	---	---	---	---	---	---	---	---	78.2	75.0	69.7
MIN	---	---	---	---	---	---	---	---	---	68.9	69.4	58.7

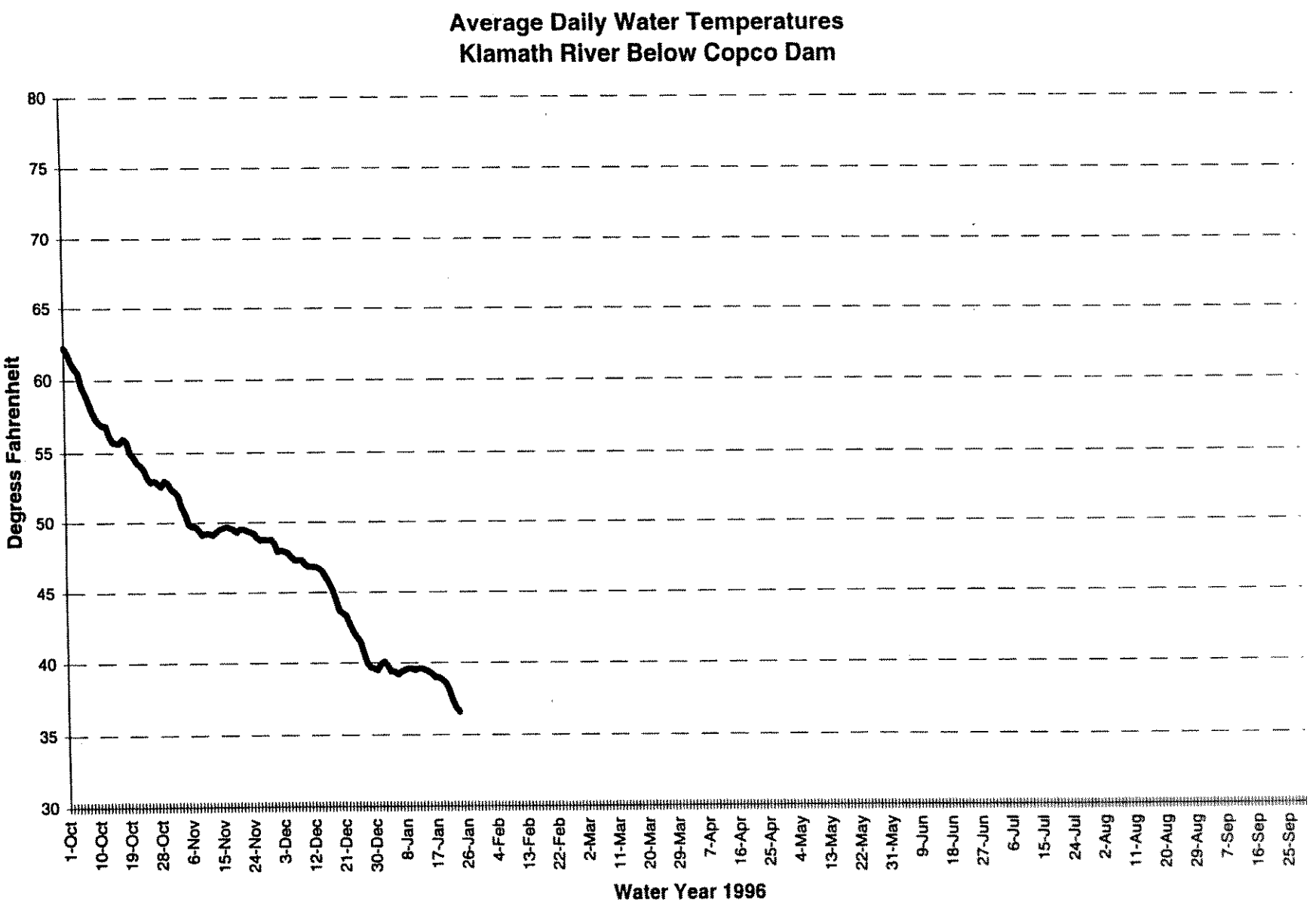

Average Daily Water Temperatures
Klamath River Below Keno Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below Copco Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.2	52.4	48.5	39.9	---	---	---	---	---	---	---	---
2	61.8	52.2	47.9	40.1	---	---	---	---	---	---	---	---
3	61.2	51.9	48.0	39.8	---	---	---	---	---	---	---	---
4	60.8	51.1	47.9	39.4	---	---	---	---	---	---	---	---
5	60.5	50.6	47.8	39.4	---	---	---	---	---	---	---	---
6	59.6	49.9	47.5	39.2	---	---	---	---	---	---	---	---
7	59.1	49.7	47.3	39.4	---	---	---	---	---	---	---	---
8	58.5	49.7	47.3	39.5	---	---	---	---	---	---	---	---
9	57.9	49.4	47.3	39.6	---	---	---	---	---	---	---	---
10	57.4	49.1	47.0	39.6	---	---	---	---	---	---	---	---
11	57.1	49.2	46.8	39.5	---	---	---	---	---	---	---	---
12	56.9	49.2	46.8	39.6	---	---	---	---	---	---	---	---
13	56.9	49.1	46.8	39.6	---	---	---	---	---	---	---	---
14	56.2	49.3	46.7	39.5	---	---	---	---	---	---	---	---
15	55.8	49.5	46.5	39.4	---	---	---	---	---	---	---	---
16	55.7	49.6	46.1	39.2	---	---	---	---	---	---	---	---
17	55.7	49.7	45.7	39.0	---	---	---	---	---	---	---	---
18	56.0	49.6	45.2	39.0	---	---	---	---	---	---	---	---
19	55.8	49.5	44.5	38.8	---	---	---	---	---	---	---	---
20	55.0	49.3	43.7	38.6	---	---	---	---	---	---	---	---
21	54.7	49.5	43.5	38.1	---	---	---	---	---	---	---	---
22	54.3	49.5	43.3	37.4	---	---	---	---	---	---	---	---
23	54.1	49.4	42.7	36.9	---	---	---	---	---	---	---	---
24	53.8	49.3	42.2	36.6	---	---	---	---	---	---	---	---
25	53.2	49.2	41.8	---	---	---	---	---	---	---	---	---
26	52.9	48.9	41.5	---	---	---	---	---	---	---	---	---
27	53.0	48.7	40.7	---	---	---	---	---	---	---	---	---
28	52.8	48.8	40.0	---	---	---	---	---	---	---	---	---
29	52.6	48.7	39.7	---	---	---	---	---	---	---	---	---
30	53.0	48.8	39.6	---	---	---	---	---	---	---	---	---
31	52.8	---	39.5	---	---	---	---	---	---	---	---	---
MEAN	56.4	49.7	44.8	---	---	---	---	---	---	---	---	---
MAX	62.2	52.4	48.5	---	---	---	---	---	---	---	---	---
MIN	52.6	48.7	39.5	---	---	---	---	---	---	---	---	---

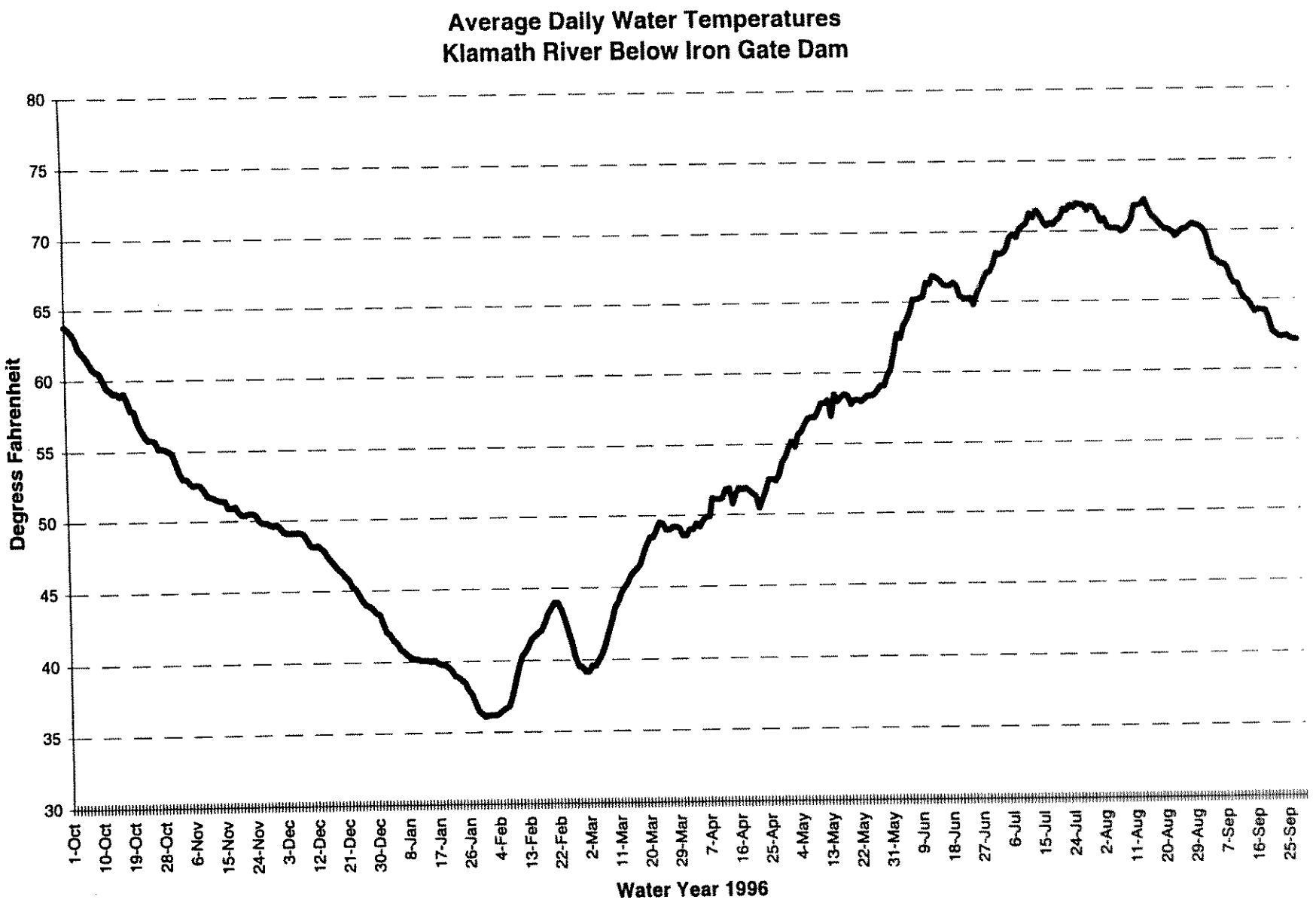

Average Daily Water Temperatures
Klamath River Below Copco Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below Iron Gate Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.8	54.8	49.7	42.7	36.2	39.2	48.6	54.1	59.8	67.1	71.8	70.4
2	63.6	54.1	49.5	42.1	36.2	39.2	49.0	54.7	60.2	67.2	71.7	70.3
3	63.3	53.4	49.2	41.9	36.2	39.6	49.0	55.2	61.4	67.7	71.3	70.1
4	62.9	53.0	49.1	41.5	36.3	39.6	49.4	54.8	62.7	68.5	70.7	69.7
5	62.2	53.0	49.1	41.3	36.5	40.0	49.2	55.7	62.4	68.4	70.9	68.8
6	61.9	52.7	49.1	40.9	36.7	40.4	49.6	55.9	63.3	68.5	70.3	68.0
7	61.6	52.5	49.1	40.7	36.8	41.1	49.9	56.4	63.7	68.8	70.2	67.9
8	61.2	52.6	49.1	40.5	37.5	41.9	49.9	56.8	64.3	69.6	70.2	67.6
9	60.8	52.5	49.0	40.3	38.5	42.7	51.2	56.9	65.2	69.8	70.2	67.6
10	60.6	52.2	48.6	40.2	39.5	43.6	51.1	56.9	65.2	69.6	70.0	67.4
11	60.5	51.8	48.2	40.2	40.3	44.0	51.1	57.3	65.3	70.2	70.1	66.7
12	60.0	51.7	48.1	40.1	40.6	44.6	51.2	57.9	65.4	70.4	70.4	66.2
13	59.5	51.6	48.2	40.1	41.0	45.0	51.8	57.9	66.4	70.6	70.8	66.2
14	59.3	51.5	48.0	40.1	41.5	45.3	51.9	58.1	66.3	71.3	71.8	65.5
15	59.1	51.4	47.8	40.0	41.7	45.8	50.8	57.0	66.9	71.0	71.8	65.1
16	59.1	51.4	47.4	40.1	41.9	46.1	51.5	58.5	66.8	71.5	71.9	64.9
17	58.9	50.9	47.1	39.9	42.1	46.3	51.9	58.0	66.6	71.2	72.2	64.5
18	59.1	50.9	46.8	39.8	42.6	46.6	51.8	58.3	66.3	70.7	71.6	64.1
19	58.6	51.0	46.5	39.8	43.2	47.4	51.9	58.5	66.2	70.4	71.1	64.3
20	57.9	50.6	46.3	39.6	43.6	48.0	51.7	58.4	66.2	70.6	70.9	64.2
21	57.8	50.4	46.0	39.4	44.0	48.5	51.5	57.8	66.4	70.5	70.6	64.2
22	57.0	50.4	45.8	39.0	44.0	48.5	51.3	58.1	66.2	70.8	70.3	63.6
23	56.5	50.5	45.3	38.9	43.5	49.0	50.5	58.1	65.4	71.0	70.1	62.7
24	56.1	50.5	45.1	38.7	42.8	49.5	51.1	58.0	65.3	71.6	70.1	62.5
25	55.8	50.4	44.7	38.5	42.0	49.4	51.7	58.2	65.2	71.5	69.9	62.3
26	55.8	50.0	44.3	38.0	41.2	49.0	52.5	58.4	65.3	71.9	69.6	62.3
27	55.7	49.8	44.0	37.7	40.2	49.0	52.5	58.4	64.8	71.7	69.8	62.4
28	55.2	49.8	43.9	37.1	39.6	49.2	52.4	58.5	65.6	72.0	70.1	62.2
29	55.2	49.7	43.7	36.5	39.5	49.2	52.8	58.8	66.1	71.9	70.1	62.1
30	55.1	49.6	43.4	36.3	---	49.1	53.7	59.1	66.6	71.9	70.3	62.1
31	55.0	---	43.3	36.1	---	48.6	---	59.1	---	71.5	70.5	---
MEAN	59.0	51.5	46.9	39.6	40.2	45.3	51.1	57.4	64.9	70.3	70.7	65.5
MAX	63.8	54.8	49.7	42.7	44.0	49.5	53.7	59.1	66.9	72.0	72.2	70.4
MIN	55.0	49.6	43.3	36.1	36.2	39.2	48.6	54.1	59.8	67.1	69.6	62.1

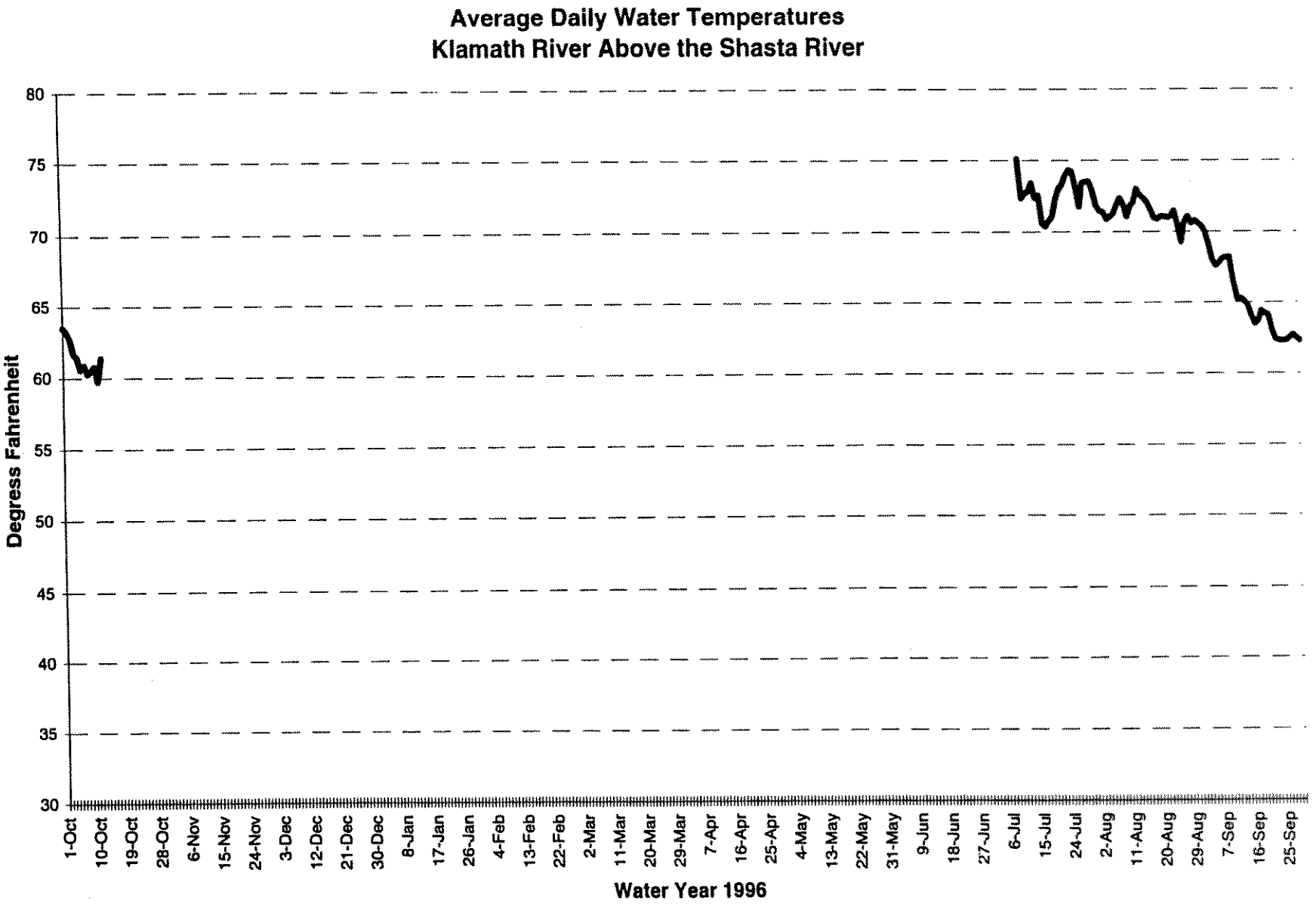

Average Daily Water Temperatures
Klamath River Below Iron Gate Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Above the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.5	---	---	---	---	---	---	---	---	---	72.9	70.6
2	63.2	---	---	---	---	---	---	---	---	---	71.9	70.4
3	62.7	---	---	---	---	---	---	---	---	---	71.5	70.0
4	61.7	---	---	---	---	---	---	---	---	---	71.4	69.1
5	61.4	---	---	---	---	---	---	---	---	---	70.9	68.0
6	60.6	---	---	---	---	---	---	---	---	---	71.1	67.6
7	60.9	---	---	---	---	---	---	---	---	---	71.3	67.8
8	60.3	---	---	---	---	---	---	---	---	---	71.9	68.1
9	60.5	---	---	---	---	---	---	---	---	---	72.4	68.2
10	60.8	---	---	---	---	---	---	---	---	75.1	72.0	68.2
11	59.8	---	---	---	---	---	---	---	---	72.4	71.1	66.5
12	61.4	---	---	---	---	---	---	---	---	72.7	71.8	65.3
13	---	---	---	---	---	---	---	---	---	72.9	72.1	65.3
14	---	---	---	---	---	---	---	---	---	73.4	73.0	65.1
15	---	---	---	---	---	---	---	---	---	72.4	72.6	64.8
16	---	---	---	---	---	---	---	---	---	72.6	72.4	64.1
17	---	---	---	---	---	---	---	---	---	70.6	72.1	63.5
18	---	---	---	---	---	---	---	---	---	70.4	71.6	63.7
19	---	---	---	---	---	---	---	---	---	70.8	71.0	64.4
20	---	---	---	---	---	---	---	---	---	71.1	70.9	64.2
21	---	---	---	---	---	---	---	---	---	72.3	71.1	64.1
22	---	---	---	---	---	---	---	---	---	73.0	71.1	63.0
23	---	---	---	---	---	---	---	---	---	73.3	71.0	62.4
24	---	---	---	---	---	---	---	---	---	73.9	71.1	62.3
25	---	---	---	---	---	---	---	---	---	74.3	71.5	62.3
26	---	---	---	---	---	---	---	---	---	74.2	70.5	62.3
27	---	---	---	---	---	---	---	---	---	73.2	69.3	62.5
28	---	---	---	---	---	---	---	---	---	71.8	70.7	62.7
29	---	---	---	---	---	---	---	---	---	73.4	71.1	62.5
30	---	---	---	---	---	---	---	---	---	73.5	70.6	62.3
31	---	---	---	---	---	---	---	---	---	73.5	70.8	---
MEAN	---	---	---	---	---	---	---	---	---	---	71.4	65.4
MAX	---	---	---	---	---	---	---	---	---	---	73.0	70.6
MIN	---	---	---	---	---	---	---	---	---	---	69.3	62.3

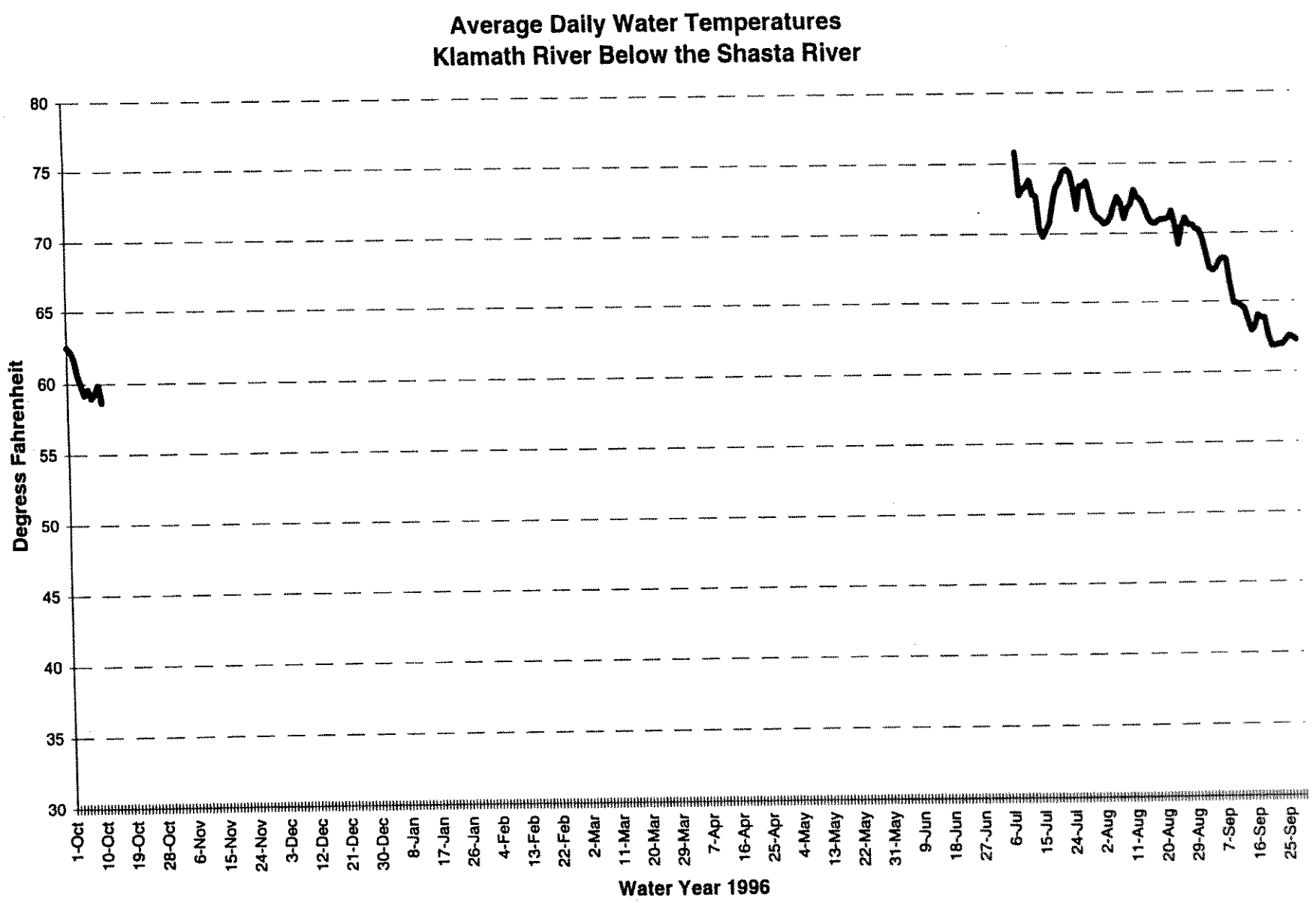

Average Daily Water Temperatures
Klamath River Above the Shasta River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.5	---	---	---	---	---	---	---	---	---	72.8	70.3
2	62.2	---	---	---	---	---	---	---	---	---	71.6	70.2
3	61.7	---	---	---	---	---	---	---	---	---	71.2	69.6
4	60.6	---	---	---	---	---	---	---	---	---	71.0	68.6
5	59.9	---	---	---	---	---	---	---	---	---	70.7	67.5
6	59.2	---	---	---	---	---	---	---	---	---	70.8	67.3
7	59.6	---	---	---	---	---	---	---	---	---	71.2	67.5
8	59.0	---	---	---	---	---	---	---	---	---	72.0	68.0
9	59.3	---	---	---	---	---	---	---	---	---	72.6	68.2
10	59.9	---	---	---	---	---	---	---	---	75.8	72.2	68.1
11	58.7	---	---	---	---	---	---	---	---	72.8	71.1	66.3
12	---	---	---	---	---	---	---	---	---	73.2	71.8	64.9
13	---	---	---	---	---	---	---	---	---	73.4	72.1	64.9
14	---	---	---	---	---	---	---	---	---	73.8	73.1	64.7
15	---	---	---	---	---	---	---	---	---	72.8	72.6	64.5
16	---	---	---	---	---	---	---	---	---	72.7	72.4	63.7
17	---	---	---	---	---	---	---	---	---	70.3	71.9	62.9
18	---	---	---	---	---	---	---	---	---	69.8	71.2	63.1
19	---	---	---	---	---	---	---	---	---	70.3	70.8	64.0
20	---	---	---	---	---	---	---	---	---	70.8	70.7	63.8
21	---	---	---	---	---	---	---	---	---	72.3	70.9	63.8
22	---	---	---	---	---	---	---	---	---	73.3	71.0	62.5
23	---	---	---	---	---	---	---	---	---	73.7	71.0	61.8
24	---	---	---	---	---	---	---	---	---	74.4	71.1	61.8
25	---	---	---	---	---	---	---	---	---	74.6	71.6	61.9
26	---	---	---	---	---	---	---	---	---	74.4	70.6	61.9
27	---	---	---	---	---	---	---	---	---	73.4	69.2	62.2
28	---	---	---	---	---	---	---	---	---	71.8	70.5	62.5
29	---	---	---	---	---	---	---	---	---	73.4	71.1	62.4
30	---	---	---	---	---	---	---	---	---	73.4	70.6	62.2
31	---	---	---	---	---	---	---	---	---	73.7	70.6	---
MEAN	---	---	---	---	---	---	---	---	---	---	71.4	65.0
MAX	---	---	---	---	---	---	---	---	---	---	73.1	70.3
MIN	---	---	---	---	---	---	---	---	---	---	69.2	61.8

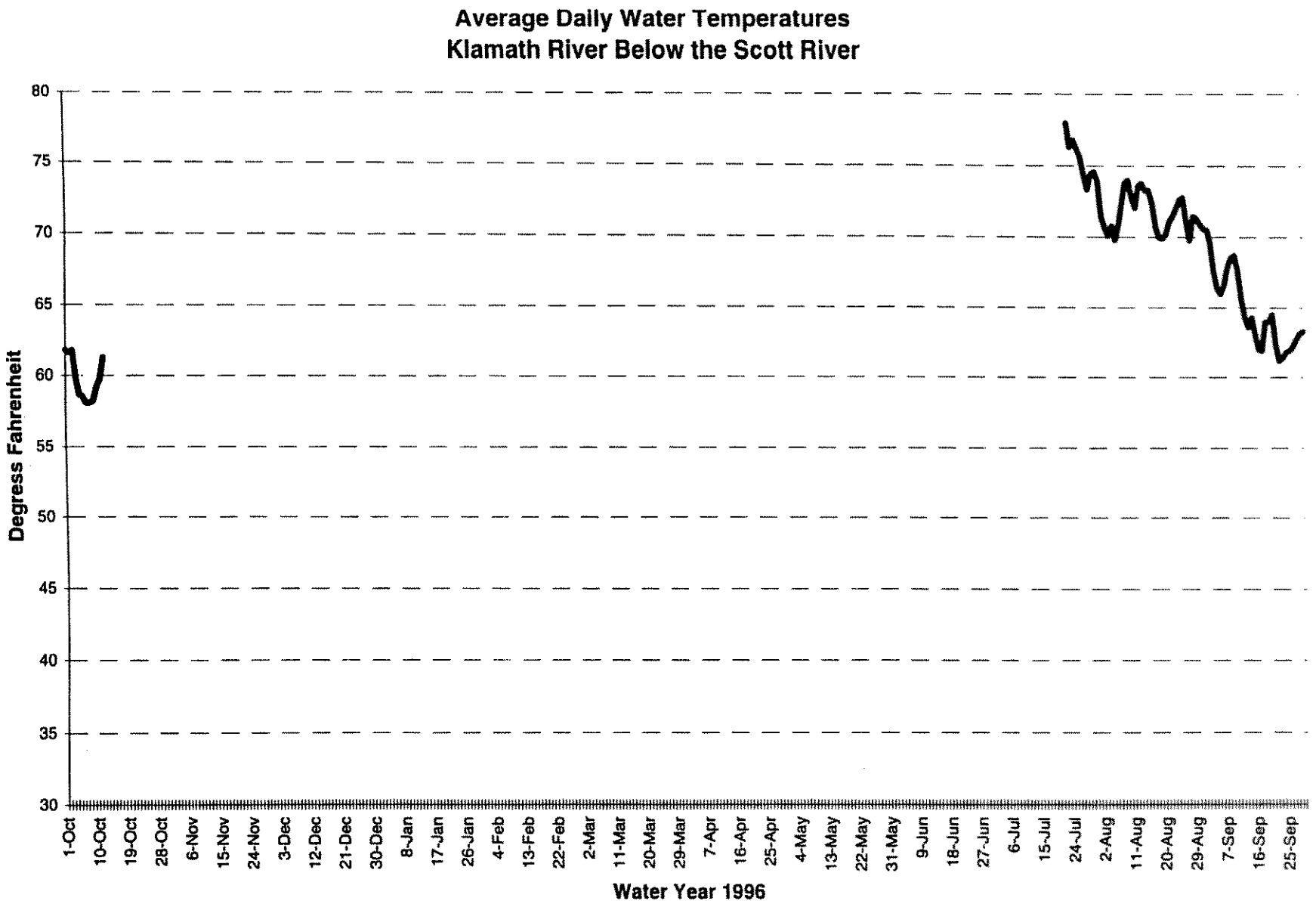

Average Daily Water Temperatures
Klamath River Below the Shasta River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Below the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.8	---	---	---	---	---	---	---	---	---	74.0	70.6
2	61.6	---	---	---	---	---	---	---	---	---	71.4	70.5
3	61.8	---	---	---	---	---	---	---	---	---	70.7	69.5
4	59.8	---	---	---	---	---	---	---	---	---	70.1	67.6
5	58.7	---	---	---	---	---	---	---	---	---	70.8	66.4
6	58.5	---	---	---	---	---	---	---	---	---	69.8	66.0
7	58.1	---	---	---	---	---	---	---	---	---	70.9	66.6
8	58.1	---	---	---	---	---	---	---	---	---	72.4	67.8
9	58.2	---	---	---	---	---	---	---	---	---	73.8	68.5
10	59.2	---	---	---	---	---	---	---	---	---	74.0	68.7
11	59.8	---	---	---	---	---	---	---	---	---	72.8	67.7
12	61.3	---	---	---	---	---	---	---	---	---	72.1	65.6
13	---	---	---	---	---	---	---	---	---	---	73.6	64.3
14	---	---	---	---	---	---	---	---	---	---	73.8	63.6
15	---	---	---	---	---	---	---	---	---	---	73.3	64.3
16	---	---	---	---	---	---	---	---	---	---	73.3	63.1
17	---	---	---	---	---	---	---	---	---	---	72.4	62.0
18	---	---	---	---	---	---	---	---	---	---	70.7	61.9
19	---	---	---	---	---	---	---	---	---	---	70.0	64.0
20	---	---	---	---	---	---	---	---	---	---	69.9	64.0
21	---	---	---	---	---	---	---	---	---	---	70.2	64.5
22	---	---	---	---	---	---	---	---	---	---	71.1	62.4
23	---	---	---	---	---	---	---	---	---	78.0	71.5	61.2
24	---	---	---	---	---	---	---	---	---	76.3	72.0	61.4
25	---	---	---	---	---	---	---	---	---	76.8	72.6	61.8
26	---	---	---	---	---	---	---	---	---	76.2	72.8	61.9
27	---	---	---	---	---	---	---	---	---	75.6	71.1	62.2
28	---	---	---	---	---	---	---	---	---	74.4	69.8	62.7
29	---	---	---	---	---	---	---	---	---	73.4	71.5	63.1
30	---	---	---	---	---	---	---	---	---	74.4	71.3	63.3
31	---	---	---	---	---	---	---	---	---	74.6	70.9	---
MEAN	---	---	---	---	---	---	---	---	---	---	71.8	64.9
MAX	---	---	---	---	---	---	---	---	---	---	74.0	70.6
MIN	---	---	---	---	---	---	---	---	---	---	69.8	61.2

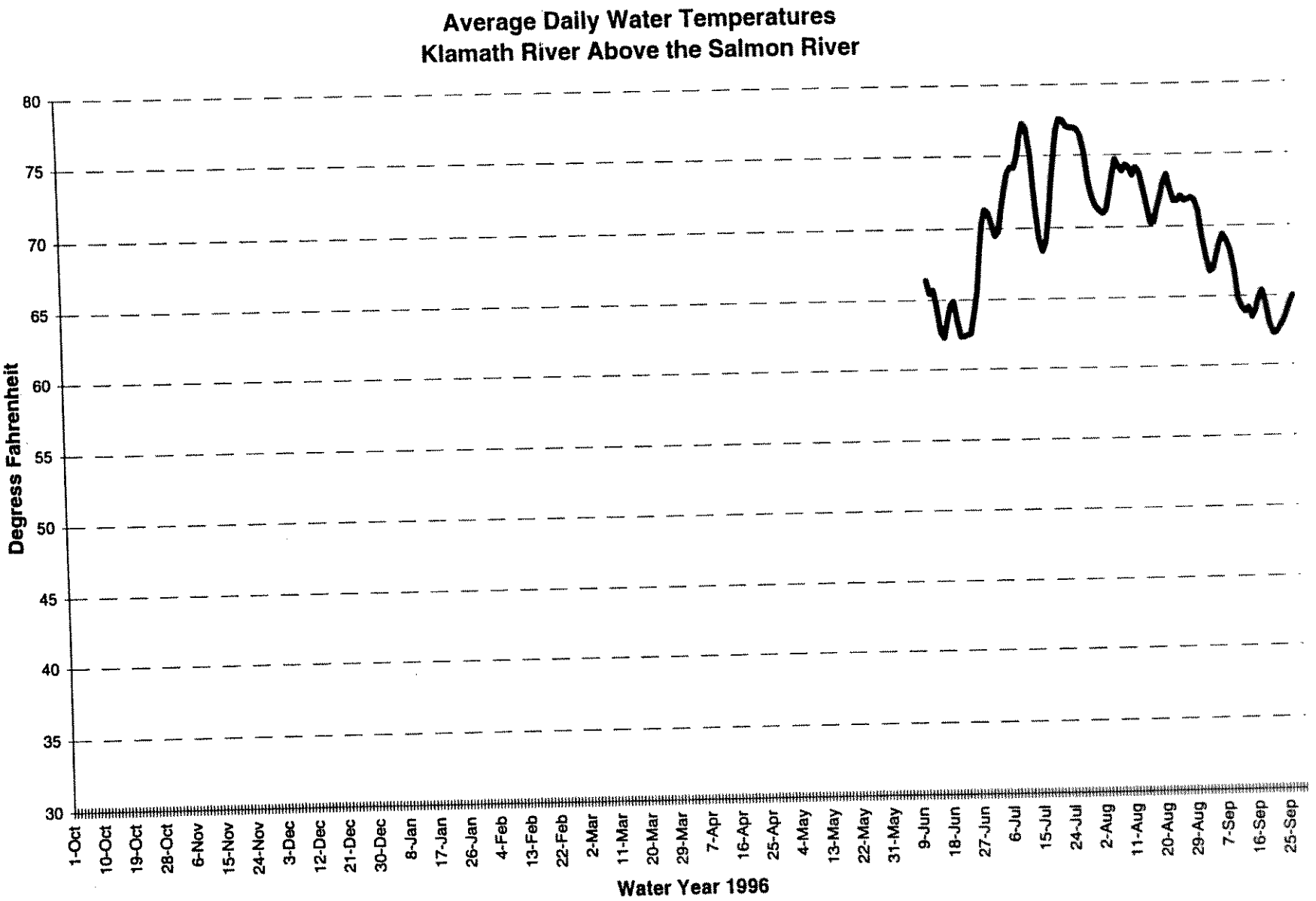

Average Daily Water Temperatures
Klamath River Below the Scott River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River Above the Salmon River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	70.3	75.2	72.0
2	---	---	---	---	---	---	---	---	---	71.3	73.2	71.8
3	---	---	---	---	---	---	---	---	---	71.1	72.1	71.1
4	---	---	---	---	---	---	---	---	---	70.3	71.5	69.2
5	---	---	---	---	---	---	---	---	---	69.5	71.2	67.8
6	---	---	---	---	---	---	---	---	---	69.8	71.0	66.8
7	---	---	---	---	---	---	---	---	---	71.4	71.2	67.0
8	---	---	---	---	---	---	---	---	---	72.7	72.3	67.9
9	---	---	---	---	---	---	---	---	---	73.8	73.6	68.8
10	---	---	---	---	---	---	---	---	---	74.2	74.7	69.4
11	---	---	---	---	---	---	---	---	---	74.2	74.2	69.0
12	---	---	---	---	---	---	---	---	---	75.0	73.9	68.3
13	---	---	---	---	---	---	---	---	---	76.3	74.3	67.0
14	---	---	---	---	---	---	---	---	66.4	77.2	74.1	64.8
15	---	---	---	---	---	---	---	---	65.5	76.9	73.6	64.2
16	---	---	---	---	---	---	---	---	65.7	75.0	74.1	63.9
17	---	---	---	---	---	---	---	---	64.4	71.7	73.8	64.2
18	---	---	---	---	---	---	---	---	62.7	69.3	72.7	63.5
19	---	---	---	---	---	---	---	---	62.3	68.4	71.5	64.0
20	---	---	---	---	---	---	---	---	63.5	69.0	70.3	64.9
21	---	---	---	---	---	---	---	---	64.6	70.8	70.3	65.4
22	---	---	---	---	---	---	---	---	64.9	73.2	71.3	64.5
23	---	---	---	---	---	---	---	---	63.5	75.3	72.1	63.0
24	---	---	---	---	---	---	---	---	62.4	76.8	73.1	62.3
25	---	---	---	---	---	---	---	---	62.4	77.5	73.6	62.4
26	---	---	---	---	---	---	---	---	62.5	77.4	72.6	62.8
27	---	---	---	---	---	---	---	---	62.6	77.0	71.8	63.2
28	---	---	---	---	---	---	---	---	64.1	76.9	71.8	63.8
29	---	---	---	---	---	---	---	---	65.5	76.9	72.1	64.5
30	---	---	---	---	---	---	---	---	68.1	76.8	71.8	65.0
31	---	---	---	---	---	---	---	---	---	76.4	71.9	---
MEAN	---	---	---	---	---	---	---	---	---	73.6	72.6	66.1
MAX	---	---	---	---	---	---	---	---	---	77.5	75.2	72.0
MIN	---	---	---	---	---	---	---	---	---	68.4	70.3	62.3


Average Daily Water Temperatures
Klamath River Above the Salmon River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
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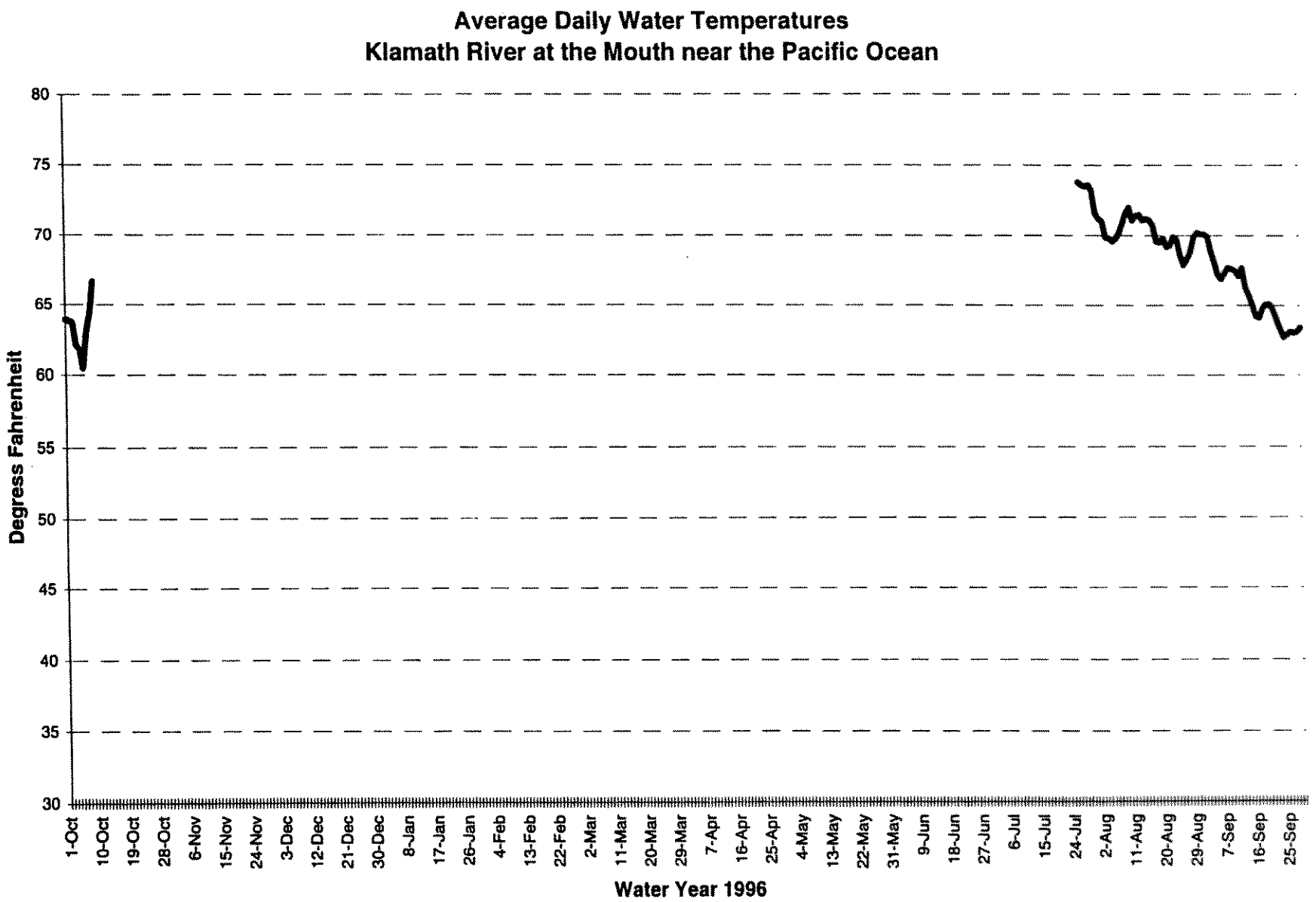
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

WATER YEAR - 1996

Water Temperatures, Klamath River Basin
Klamath River at the Mouth near the Pacific Ocean
Del Norte County California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1995 to September 1996
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63.9	---	---	---	---	---	---	---	---	---	71.6	70.1
2	63.8	---	---	---	---	---	---	---	---	---	71.2	70.1
3	63.7	---	---	---	---	---	---	---	---	---	71.0	69.9
4	62.1	---	---	---	---	---	---	---	---	---	69.9	68.9
5	61.8	---	---	---	---	---	---	---	---	---	69.8	68.1
6	60.5	---	---	---	---	---	---	---	---	---	69.6	67.2
7	63.0	---	---	---	---	---	---	---	---	---	69.8	66.9
8	64.3	---	---	---	---	---	---	---	---	---	70.2	67.3
9	66.7	---	---	---	---	---	---	---	---	---	70.9	67.7
10	---	---	---	---	---	---	---	---	---	---	71.6	67.6
11	---	---	---	---	---	---	---	---	---	---	72.0	67.5
12	---	---	---	---	---	---	---	---	---	---	71.1	67.1
13	---	---	---	---	---	---	---	---	---	---	71.4	67.7
14	---	---	---	---	---	---	---	---	---	---	71.5	66.3
15	---	---	---	---	---	---	---	---	---	---	71.1	65.7
16	---	---	---	---	---	---	---	---	---	---	71.2	65.0
17	---	---	---	---	---	---	---	---	---	---	71.1	64.2
18	---	---	---	---	---	---	---	---	---	---	70.7	64.1
19	---	---	---	---	---	---	---	---	---	---	69.6	64.8
20	---	---	---	---	---	---	---	---	---	---	69.5	65.1
21	---	---	---	---	---	---	---	---	---	---	69.8	65.1
22	---	---	---	---	---	---	---	---	---	---	69.2	64.7
23	---	---	---	---	---	---	---	---	---	---	69.3	64.0
24	---	---	---	---	---	---	---	---	---	---	69.9	63.3
25	---	---	---	---	---	---	---	---	---	---	69.7	62.7
26	---	---	---	---	---	---	---	---	---	---	68.6	62.9
27	---	---	---	---	---	---	---	---	---	73.8	67.9	63.1
28	---	---	---	---	---	---	---	---	---	73.6	68.3	63.0
29	---	---	---	---	---	---	---	---	---	73.5	68.8	63.1
30	---	---	---	---	---	---	---	---	---	73.6	69.9	63.4
31	---	---	---	---	---	---	---	---	---	73.2	70.2	---
MEAN	---	---	---	---	---	---	---	---	---	---	70.2	65.9
MAX	---	---	---	---	---	---	---	---	---	---	72.0	70.1
MIN	---	---	---	---	---	---	---	---	---	---	67.9	62.7


Average Daily Water Temperatures
Klamath River at the Mouth near the Pacific Ocean
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
2-Mar
11-Mar
20-Mar
29-Mar
7-Apr
16-Apr
25-Apr
4-May
13-May
22-May
31-May
9-Jun
18-Jun
27-Jun
6-Jul
15-Jul
24-Jul
2-Aug
11-Aug
20-Aug
29-Aug
7-Sep
16-Sep
25-Sep
Water Year 1996

Appendix E

Water Temperature Monitoring of the Klamath River Mainstem

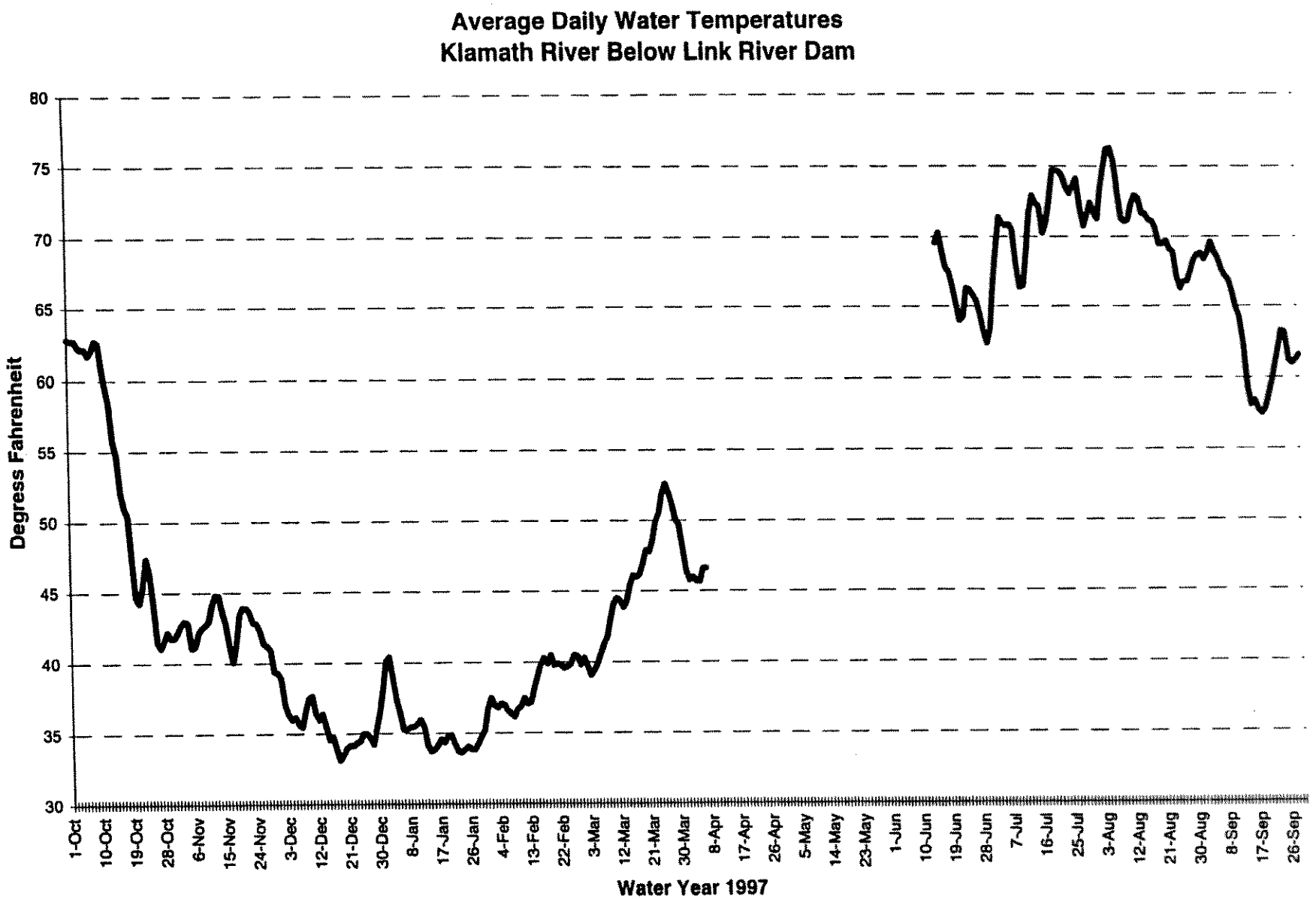
1997 Water Year

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below Link River Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.8	42.2	38.9	40.1	37.5	40.3	46.4	---	---	62.4	72.4	68.7
2	62.7	42.7	37.1	40.4	37.0	39.7	45.8	---	---	63.4	71.7	68.8
3	62.7	43.0	36.4	39.0	36.8	39.1	46.0	---	---	66.7	71.3	68.4
4	62.3	42.8	36.0	37.4	37.1	39.4	45.7	---	---	69.2	73.4	68.8
5	62.1	41.1	36.2	36.5	37.0	39.9	45.7	---	---	71.4	74.9	69.6
6	62.1	41.2	35.7	35.3	36.6	40.6	46.6	---	---	71.0	76.1	68.9
7	61.7	42.1	35.5	35.3	36.4	41.3	46.6	---	---	70.8	76.2	68.5
8	62.0	42.5	36.6	35.5	36.2	41.8	---	---	---	70.9	75.3	67.7
9	62.7	42.7	37.5	35.5	36.7	43.1	---	---	---	70.5	73.2	67.2
10	62.5	43.0	37.7	35.7	36.9	44.1	---	---	---	68.0	71.3	66.9
11	60.8	44.1	36.5	36.0	37.5	44.5	---	---	---	66.4	71.1	66.0
12	59.5	44.8	36.0	35.5	37.1	44.3	---	---	---	66.5	71.2	64.9
13	58.3	44.8	36.4	34.2	37.2	43.9	---	---	---	68.9	72.3	64.2
14	55.7	43.7	35.5	33.8	38.2	44.3	---	---	---	71.7	72.9	62.4
15	54.7	42.8	34.6	33.9	39.0	45.4	---	---	---	72.9	72.7	59.3
16	52.2	41.3	34.8	34.2	39.8	46.1	---	---	69.6	72.4	71.7	58.1
17	51.0	40.1	33.9	34.6	40.3	46.0	---	---	70.3	72.1	71.6	58.4
18	50.4	41.4	33.2	34.4	39.9	46.2	---	---	69.0	70.3	71.2	57.8
19	47.4	43.4	33.5	34.8	40.5	46.9	---	---	67.8	71.0	71.1	57.5
20	44.7	43.9	34.0	34.9	39.8	47.9	---	---	67.5	72.6	70.6	57.8
21	44.3	43.9	34.2	34.3	39.9	47.8	---	---	66.4	74.7	69.5	58.8
22	45.4	43.6	34.2	33.8	39.8	48.6	---	---	65.2	74.7	69.5	59.8
23	47.4	42.9	34.4	33.7	39.6	49.9	---	---	64.0	74.6	69.7	60.9
24	46.4	42.8	34.5	33.9	39.7	50.5	---	---	64.2	74.2	69.1	62.0
25	44.2	42.3	35.0	34.1	39.9	51.9	---	---	66.3	73.5	68.9	63.2
26	41.5	41.4	35.0	33.9	40.5	52.6	---	---	66.2	73.1	67.1	63.1
27	41.1	41.2	34.7	33.9	40.4	52.0	---	---	65.8	73.6	66.3	61.2
28	41.6	40.9	34.3	34.3	39.8	51.2	---	---	65.4	74.1	66.8	61.0
29	42.2	39.4	35.5	34.8	---	50.1	---	---	64.4	72.0	66.8	61.2
30	41.8	39.3	36.6	35.2	---	49.7	---	---	63.2	70.8	67.5	61.5
31	41.8	---	38.2	36.7	---	48.1	---	---	---	71.6	68.3	---
MEAN	52.8	42.4	39.3	35.3	38.5	45.6	---	---	---	70.8	71.0	63.4
MAX	62.8	44.8	38.9	40.4	40.5	52.6	---	---	---	74.7	76.2	69.6
MIN	41.1	39.3	33.2	33.7	36.2	39.1	---	---	---	62.4	66.3	57.5

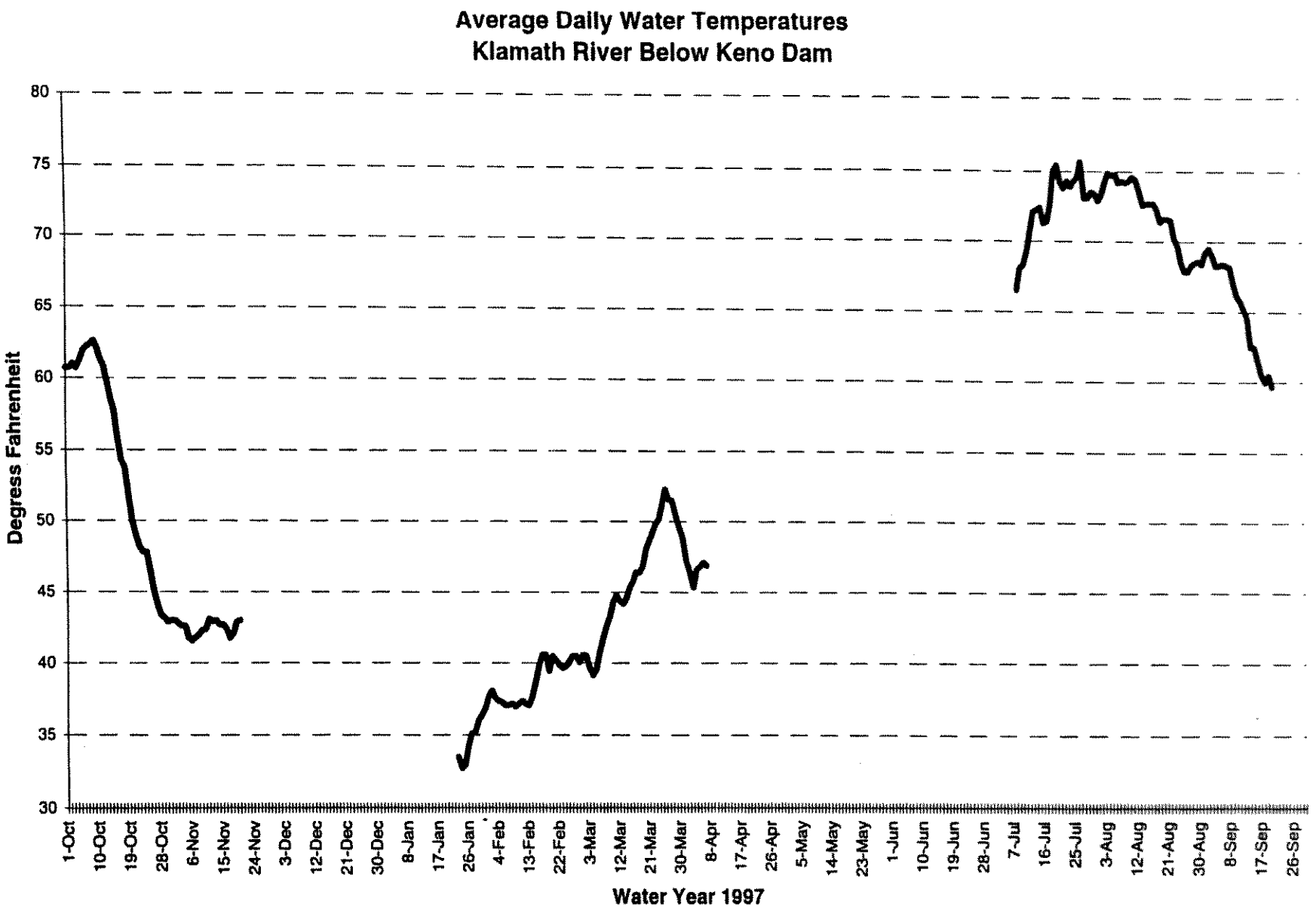

Average Daily Water Temperatures
Klamath River Below Link River Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below Keno Dam
Klamath County, Oregon
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.7	43.0	---	---	37.7	40.6	47.2	---	---	---	73.4	68.4
2	60.7	42.8	---	---	38.1	40.5	46.4	---	---	---	72.9	69.2
3	61.0	42.6	---	---	37.6	39.7	45.4	---	---	---	73.3	69.5
4	60.7	42.6	---	---	37.4	39.2	46.6	---	---	---	74.1	69.0
5	61.2	41.8	---	---	37.3	39.6	46.8	---	---	---	74.9	68.3
6	61.9	41.6	---	---	37.1	40.8	47.1	---	---	---	74.7	68.3
7	62.2	41.8	---	---	37.1	41.8	46.9	---	---	---	74.8	68.4
8	62.3	42.0	---	---	37.2	42.6	---	---	---	---	74.2	68.3
9	62.6	42.3	---	---	37.0	43.3	---	---	---	66.6	74.3	68.2
10	62.1	42.4	---	---	37.2	44.3	---	---	---	68.1	74.2	67.1
11	61.3	43.1	---	---	37.4	44.8	---	---	---	68.3	74.3	66.2
12	60.8	42.9	---	---	37.2	44.4	---	---	---	69.3	74.6	65.8
13	59.8	43.0	---	---	37.1	44.2	---	---	---	70.8	74.4	65.2
14	58.6	42.7	---	---	37.7	44.6	---	---	---	72.1	73.6	64.6
15	57.7	42.7	---	---	38.7	45.3	---	---	---	72.2	72.6	62.5
16	55.8	42.4	---	---	39.8	45.8	---	---	---	72.4	72.7	62.5
17	54.3	41.8	---	---	40.6	46.4	---	---	---	71.3	72.7	61.5
18	53.8	42.1	---	---	40.6	46.4	---	---	---	71.4	72.7	60.5
19	51.9	42.9	---	---	39.5	46.8	---	---	---	72.6	72.3	60.0
20	50.0	43.0	---	---	40.5	48.0	---	---	---	75.0	71.4	60.5
21	49.0	---	---	---	40.2	48.6	---	---	---	75.4	71.6	59.7
22	48.2	---	---	---	39.9	49.2	---	---	---	74.2	71.6	---
23	47.8	---	---	33.5	39.7	49.8	---	---	---	73.8	71.5	---
24	47.8	---	---	32.8	39.8	50.2	---	---	---	74.3	70.2	---
25	46.5	---	---	33.0	40.1	51.2	---	---	---	73.9	69.7	---
26	45.1	---	---	34.3	40.5	52.3	---	---	---	74.3	68.5	---
27	44.1	---	---	35.1	40.5	51.6	---	---	---	74.6	67.9	---
28	43.4	---	---	35.2	40.1	51.5	---	---	---	75.6	67.9	---
29	43.2	---	---	36.0	---	50.5	---	---	---	73.1	68.3	---
30	42.9	---	---	36.4	---	49.6	---	---	---	73.1	68.5	---
31	43.0	---	---	36.8	---	48.9	---	---	---	73.5	68.6	---
MEAN	54.2	---	---	---	---	45.9	---	---	---	---	72.1	---
MAX	62.6	---	---	---	---	52.3	---	---	---	---	74.9	---
MIN	42.9	---	---	---	---	39.2	---	---	---	---	67.9	---

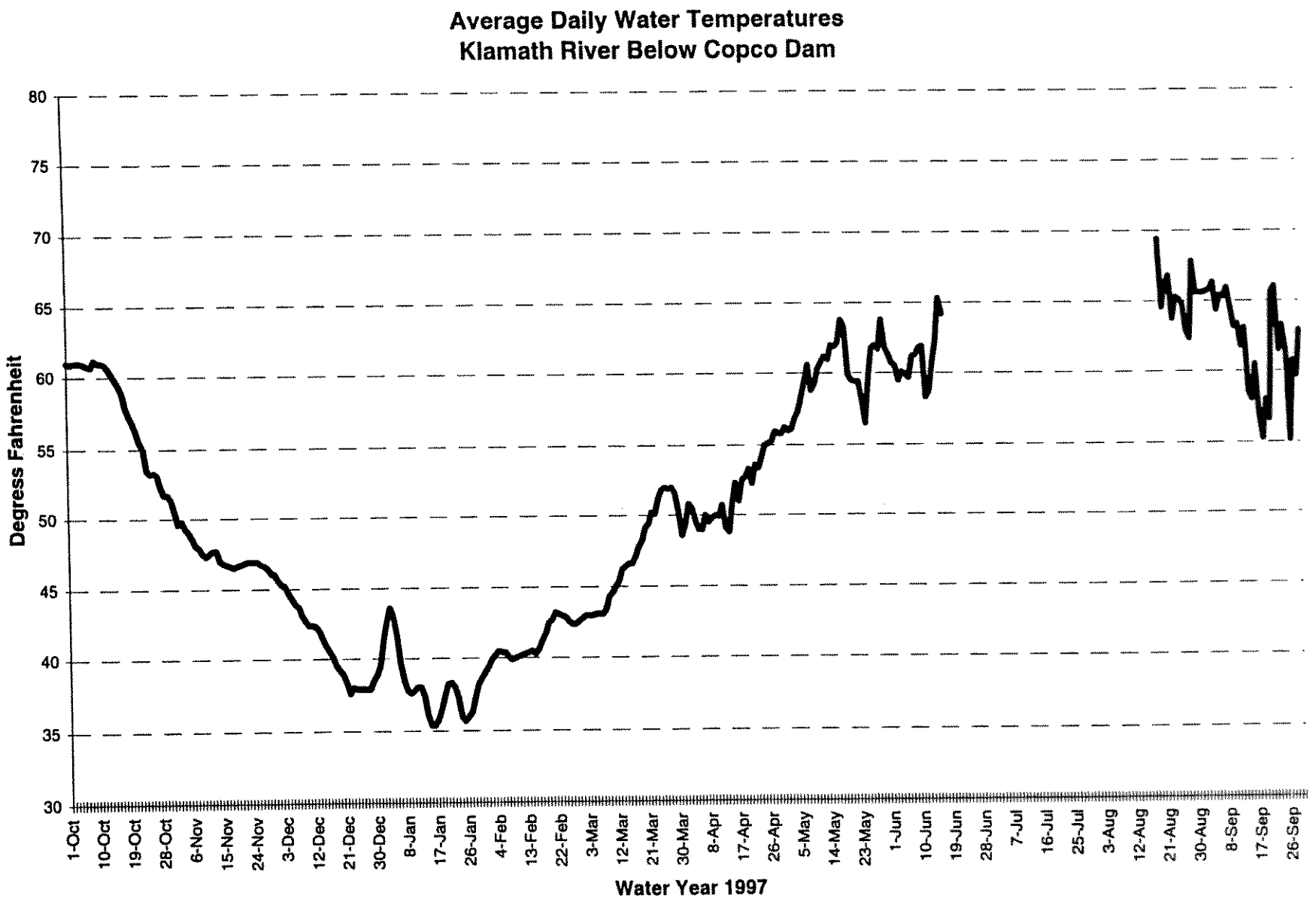

Average Daily Water Temperatures
Klamath River Below Keno Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below Copco Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61.0	50.5	45.6	41.3	39.4	42.8	49.4	56.2	61.3	---	---	65.6
2	60.9	49.6	45.3	42.6	39.9	43.0	50.8	56.0	60.7	---	---	65.6
3	61.0	49.8	45.2	43.6	40.2	43.0	50.5	56.1	60.5	---	---	65.7
4	61.0	49.3	44.7	43.0	40.5	43.0	49.6	56.8	59.5	---	---	65.8
5	61.0	49.0	44.3	41.7	40.4	43.1	49.0	57.3	60.1	---	---	66.3
6	60.9	48.6	43.9	39.7	40.4	43.1	49.0	58.3	59.9	---	---	64.4
7	60.8	48.1	43.7	38.5	40.1	43.1	50.0	59.4	59.7	---	---	65.4
8	60.7	47.9	43.1	37.8	39.9	43.4	49.5	60.6	61.2	---	---	65.3
9	61.2	47.5	42.7	37.6	40.0	44.3	49.8	58.8	61.3	---	---	65.9
10	61.0	47.3	42.4	37.8	40.1	44.6	50.0	59.2	61.8	---	---	64.6
11	61.0	47.5	42.4	38.0	40.2	45.0	49.9	60.3	61.9	---	---	63.2
12	60.9	47.7	42.3	38.0	40.3	45.4	50.7	60.8	58.3	---	---	63.4
13	60.6	47.7	42.0	37.4	40.4	46.2	49.1	61.2	58.7	---	---	61.8
14	60.2	47.0	41.4	36.1	40.5	46.4	48.8	61.0	60.8	---	---	63.1
15	59.8	46.8	40.9	35.4	40.3	46.6	50.8	62.0	62.3	---	---	58.6
16	59.4	46.7	40.5	35.4	40.6	46.6	52.3	61.9	65.3	---	---	58.0
17	58.9	46.6	40.1	35.8	41.2	47.1	51.0	62.2	64.2	---	---	60.5
18	57.9	46.5	39.5	36.5	41.7	47.8	52.5	63.8	---	---	---	56.9
19	57.3	46.6	39.2	37.4	42.5	48.2	52.7	63.3	---	---	---	55.3
20	56.8	46.7	38.9	38.2	42.7	49.1	53.3	59.9	---	---	69.4	58.0
21	56.2	46.8	38.3	38.3	43.2	49.4	52.3	59.5	---	---	64.6	56.6
22	55.5	46.9	37.6	38.0	43.1	50.2	53.6	59.4	---	---	66.2	65.6
23	55.0	46.9	38.0	37.3	43.0	50.1	53.4	59.4	---	---	66.8	66.0
24	53.5	46.9	37.9	36.0	42.9	51.2	54.2	58.1	---	---	63.8	61.5
25	53.2	46.9	37.9	35.7	42.6	51.8	55.0	56.5	---	---	65.3	63.3
26	53.3	46.7	37.9	36.0	42.4	52.0	55.1	59.7	---	---	65.1	61.4
27	53.1	46.6	37.9	36.3	42.4	51.9	55.3	61.8	---	---	64.8	55.2
28	52.3	46.4	37.9	37.3	42.6	52.0	55.9	62.0	---	---	62.9	60.8
29	51.7	46.1	38.5	38.2	---	51.6	55.8	61.7	---	---	62.4	59.7
30	51.7	46.0	38.9	38.6	---	50.3	55.8	63.8	---	---	67.8	62.9
31	51.3	---	39.5	39.0	---	48.6	---	61.8	---	---	65.6	---
MEAN	57.7	47.5	40.9	38.1	41.2	47.1	51.8	60.0	---	---	---	62.2
MAX	61.2	50.5	45.6	43.6	43.2	52.0	55.9	63.8	---	---	---	66.3
MIN	51.3	46.0	37.6	35.4	39.4	42.8	48.8	56.0	---	---	---	55.2

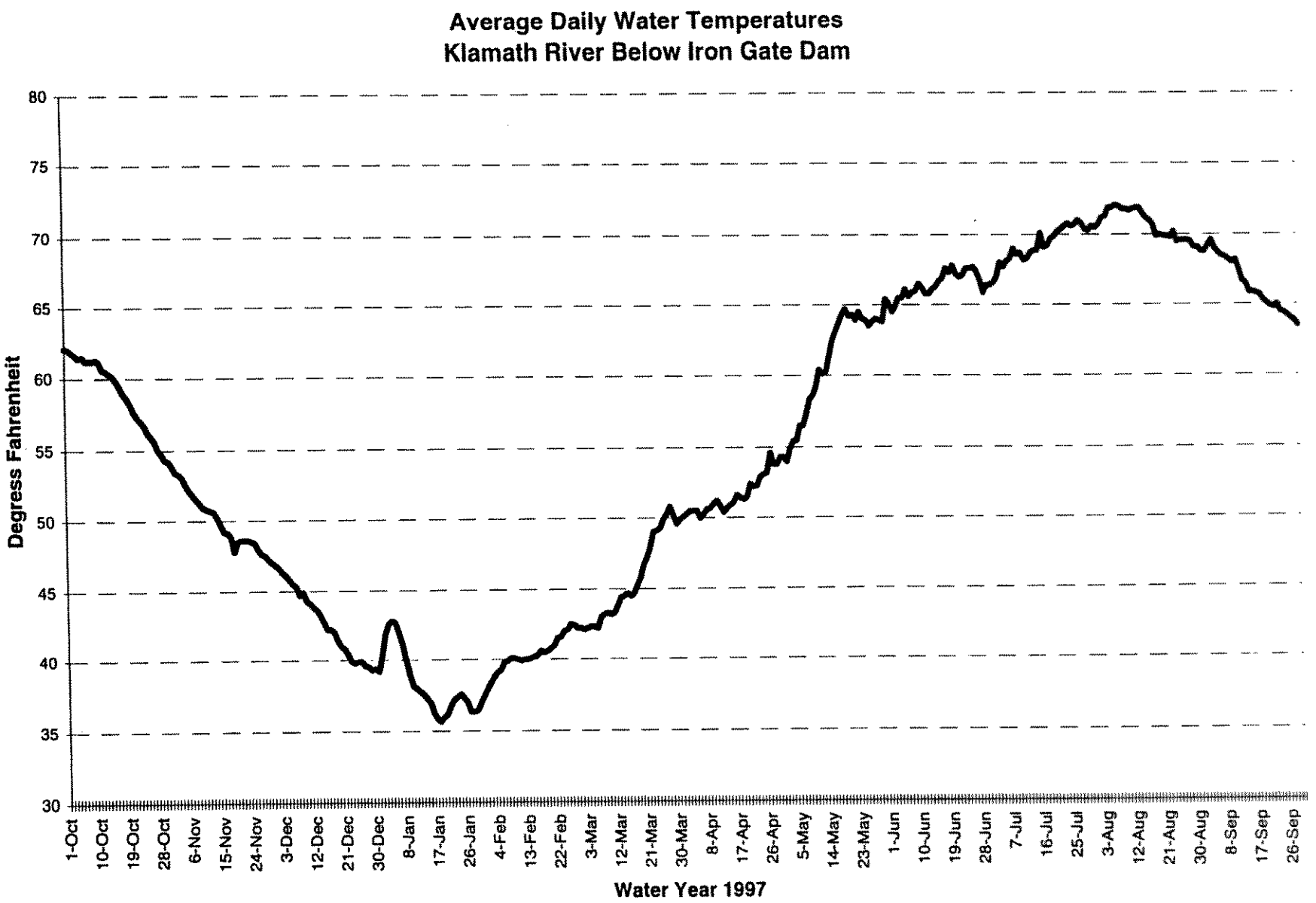

Average Daily Water Temperatures
Klamath River Below Copco Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below Iron Gate Dam
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.1	53.8	46.8	40.3	38.0	42.2	50.1	54.3	65.4	66.4	70.6	69.1
2	62.0	53.4	46.6	41.8	38.4	42.1	50.3	54.0	65.1	66.4	70.5	68.8
3	61.8	53.3	46.3	42.5	38.8	42.2	50.5	54.9	64.5	66.6	70.7	68.8
4	61.6	53.0	46.1	42.8	39.1	42.3	50.5	55.4	64.9	67.0	71.2	69.2
5	61.4	52.5	45.8	42.7	39.3	42.3	50.5	55.5	65.5	68.0	71.3	69.6
6	61.5	52.1	45.5	42.0	39.8	42.2	50.0	56.5	65.5	67.7	71.9	69.0
7	61.2	51.8	45.3	41.1	39.9	43.0	50.3	56.5	66.1	68.1	71.9	68.7
8	61.2	51.5	44.7	40.0	40.1	43.2	50.6	57.3	65.6	68.3	72.1	68.5
9	61.2	51.2	44.9	39.0	40.1	43.3	50.7	58.3	65.9	69.0	72.0	68.4
10	61.3	50.9	44.3	38.2	40.0	43.2	51.0	58.6	66.0	68.6	71.8	68.2
11	61.1	50.8	44.1	38.0	39.9	43.3	51.2	59.2	66.5	68.7	71.8	68.0
12	60.6	50.7	43.8	37.8	40.0	43.8	50.8	60.4	66.2	68.2	71.7	68.2
13	60.5	50.6	43.6	37.6	40.0	44.4	50.4	60.1	65.8	68.3	71.8	67.5
14	60.3	50.2	43.2	37.3	40.1	44.5	50.7	60.3	65.8	68.7	71.9	66.7
15	60 1	49.7	42.7	37.0	40.2	44.7	50.9	61.4	66.1	68.9	71.9	66.5
16	59.8	49.2	42.2	36.3	40.3	44.5	51.1	62.5	66.3	68.9	71.5	65.9
17	59.4	49.1	42.2	35.9	40.6	44.7	51.6	63.1	66.7	70.1	71.2	65.9
18	58.9	48.8	42.0	35.7	40.5	45.3	51.4	63.7	66.9	69.1	71.0	65.8
19	58.6	47.8	41.4	36.0	40.6	45.8	51.3	64.3	67.6	69.2	70.7	65.7
20	58.2	48.5	41.0	36.2	40.8	46.7	51.5	64.7	67.3	69.7	69.9	65.3
21	57.7	48.6	40.8	36.8	41.0	47.2	52.4	64.2	67.8	69.9	70.0	65.1
22	57.3	48.6	40.4	37.2	41.5	47.9	52.2	64.3	67.2	70.2	69.9	64.9
23	57.0	48.6	39.9	37.4	41.6	49.0	52.3	63.9	67.0	70.4	69.9	64.8
24	56.7	48.5	39.8	37.6	42.0	49.1	52.9	64.5	67.1	70.6	69.8	65.0
25	56.2	48.4	39.9	37.3	42.1	49.3	53.1	64.0	67.6	70.8	70.2	64.5
26	55.9	47.9	39.9	37.0	42.5	49.9	53.2	63.9	67.6	70.6	69.5	64.4
27	55.6	47.6	39.6	36.4	42.4	50.3	54.6	63.5	67.7	70.7	69.6	64.2
28	55.0	47.5	39.5	36.4	42.2	50.8	53.8	63.8	67.4	71.0	69.6	64.0
29	54.7	47.2	39.3	36.5	---	50.2	53.8	64.0	66.8	70.8	69.6	63.8
30	54.3	47.0	39.4	37.0	---	49.6	54.3	63.9	65.9	70.4	69.5	63.5
31	54.2	---	39.2	37.5	---	49.9	---	63.8	---	70.3	69.1	---
MEAN	58.9	50.0	42.6	38.2	40.4	45.7	51.6	60.8	66.4	69.1	70.8	66.6
MAX	62.1	53.8	46.8	42.8	42.5	50.8	54.6	64.7	67.8	71.0	72.1	69.6
MIN	54.2	47.0	39.2	35.7	38.0	42.1	50.0	54.0	64.5	66.4	69.1	63.5

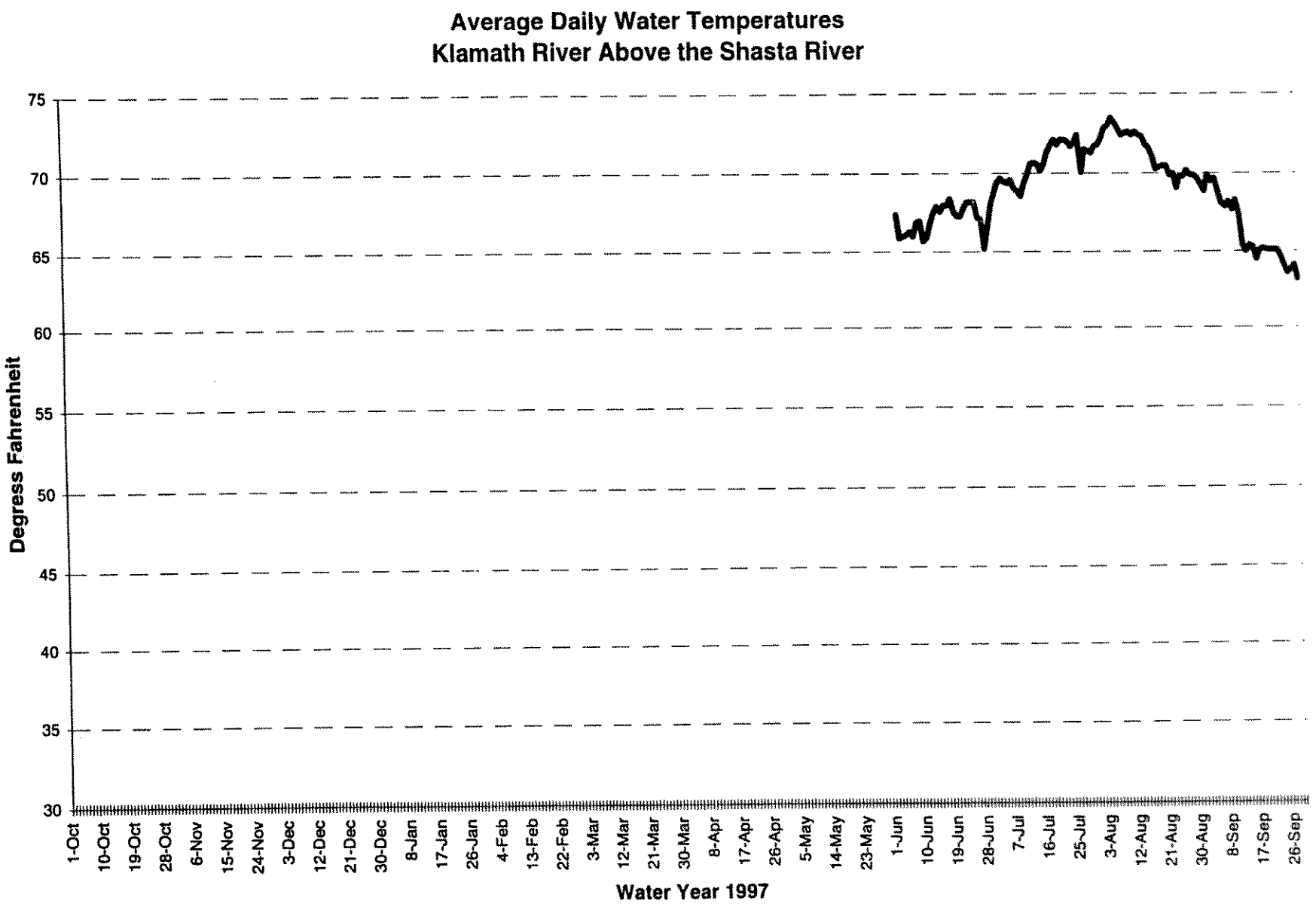

Average Daily Water Temperatures
Klamath River Below Iron Gate Dam
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Above the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	66.6	71.3	69.7
2	---	---	---	---	---	---	---	---	---	68.0	71.7	69.3
3	---	---	---	---	---	---	---	---	---	68.7	71.8	68.9
4	---	---	---	---	---	---	---	---	67.4	69.4	72.2	69.9
5	---	---	---	---	---	---	---	---	65.9	69.7	72.8	69.5
6	---	---	---	---	---	---	---	---	66.0	69.5	73.0	69.7
7	---	---	---	---	---	---	---	---	66.1	69.4	73.5	68.9
8	---	---	---	---	---	---	---	---	66.3	69.6	73.2	68.1
9	---	---	---	---	---	---	---	---	66.0	69.1	72.8	67.9
10	---	---	---	---	---	---	---	---	66.9	68.9	72.4	68.2
11	---	---	---	---	---	---	---	---	67.0	68.6	72.5	67.7
12	---	---	---	---	---	---	---	---	65.7	69.4	72.6	68.3
13	---	---	---	---	---	---	---	---	65.9	69.9	72.4	67.4
14	---	---	---	---	---	---	---	---	66.8	70.6	72.6	65.4
15	---	---	---	---	---	---	---	---	67.5	70.7	72.4	65.0
16	---	---	---	---	---	---	---	---	67.9	70.6	72.3	65.4
17	---	---	---	---	---	---	---	---	67.6	70.2	71.8	65.3
18	---	---	---	---	---	---	---	---	68.0	70.6	71.6	64.5
19	---	---	---	---	---	---	---	---	68.0	71.3	71.1	65.1
20	---	---	---	---	---	---	---	---	68.4	71.7	70.3	65.2
21	---	---	---	---	---	---	---	---	67.6	72.1	70.4	65.1
22	---	---	---	---	---	---	---	---	67.3	71.8	70.5	65.1
23	---	---	---	---	---	---	---	---	67.3	72.1	70.5	65.1
24	---	---	---	---	---	---	---	---	67.8	72.1	69.9	65.1
25	---	---	---	---	---	---	---	---	68.2	72.0	70.0	64.7
26	---	---	---	---	---	---	---	---	68.2	71.7	69.1	64.1
27	---	---	---	---	---	---	---	---	68.2	71.9	69.8	63.6
28	---	---	---	---	---	---	---	---	67.2	72.4	69.8	63.8
29	---	---	---	---	---	---	---	---	67.1	70.1	70.2	64.1
30	---	---	---	---	---	---	---	---	65.2	71.5	69.9	63.2
31	---	---	---	---	---	---	---	---	---	71.4	69.9	---
MEAN	---	---	---	---	---	---	---	---	---	70.4	71.4	66.4
MAX	---	---	---	---	---	---	---	---	---	72.4	73.5	69.9
MIN	---	---	---	---	---	---	---	---	---	66.6	69.1	63.2

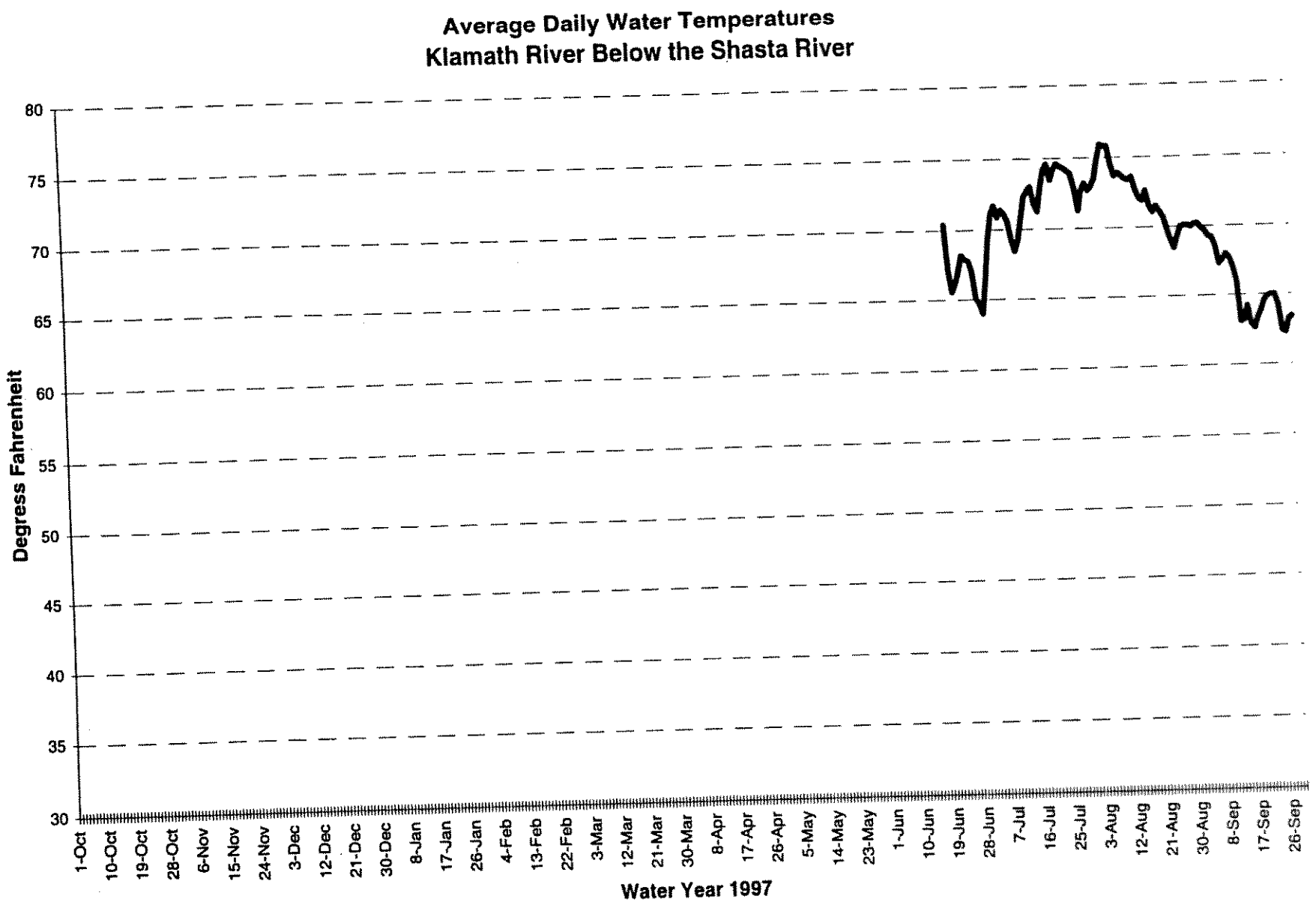

Average Daily Water Temperatures
Klamath River Above the Shasta River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below the Shasta River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	64.0	73.2	70.0
2	---	---	---	---	---	---	---	---	---	66.4	72.7	70.2
3	---	---	---	---	---	---	---	---	---	69.2	73.0	70.2
4	---	---	---	---	---	---	---	---	---	71.1	73.5	69.9
5	---	---	---	---	---	---	---	---	---	71.7	74.8	69.7
6	---	---	---	---	---	---	---	---	---	70.9	75.9	69.3
7	---	---	---	---	---	---	---	---	---	71.4	75.8	69.2
8	---	---	---	---	---	---	---	---	---	71.1	75.8	68.6
9	---	---	---	---	---	---	---	---	---	70.6	74.5	67.3
10	---	---	---	---	---	---	---	---	---	69.4	73.7	67.6
11	---	---	---	---	---	---	---	---	---	68.5	73.9	68.0
12	---	---	---	---	---	---	---	---	---	69.3	73.7	67.7
13	---	---	---	---	---	---	---	---	---	70.9	73.5	67.0
14	---	---	---	---	---	---	---	---	---	72.3	73.4	66.0
15	---	---	---	---	---	---	---	---	---	72.7	73.6	63.1
16	---	---	---	---	---	---	---	---	---	73.0	72.7	63.2
17	---	---	---	---	---	---	---	---	---	71.8	72.1	64.2
18	---	---	---	---	---	---	---	---	---	71.3	71.9	62.9
19	---	---	---	---	---	---	---	---	---	72.9	72.6	62.6
20	---	---	---	---	---	---	---	---	70.4	74.1	71.5	63.4
21	---	---	---	---	---	---	---	---	67.1	74.6	71.1	63.9
22	---	---	---	---	---	---	---	---	65.6	73.5	71.5	64.6
23	---	---	---	---	---	---	---	---	66.2	74.2	71.1	64.9
24	---	---	---	---	---	---	---	---	67.1	74.6	70.7	65.0
25	---	---	---	---	---	---	---	---	68.2	74.4	69.9	65.0
26	---	---	---	---	---	---	---	---	67.9	74.3	69.1	64.2
27	---	---	---	---	---	---	---	---	67.8	74.1	68.5	62.4
28	---	---	---	---	---	---	---	---	67.0	73.9	69.3	62.3
29	---	---	---	---	---	---	---	---	65.1	72.9	70.0	63.2
30	---	---	---	---	---	---	---	---	64.7	71.3	70.1	63.4
31	---	---	---	---	---	---	---	---	---	72.7	70.1	---
MEAN	---	---	---	---	---	---	---	---	---	71.7	72.4	66.0
MAX	---	---	---	---	---	---	---	---	---	74.6	75.9	70.2
MIN	---	---	---	---	---	---	---	---	---	64.0	68.5	62.3

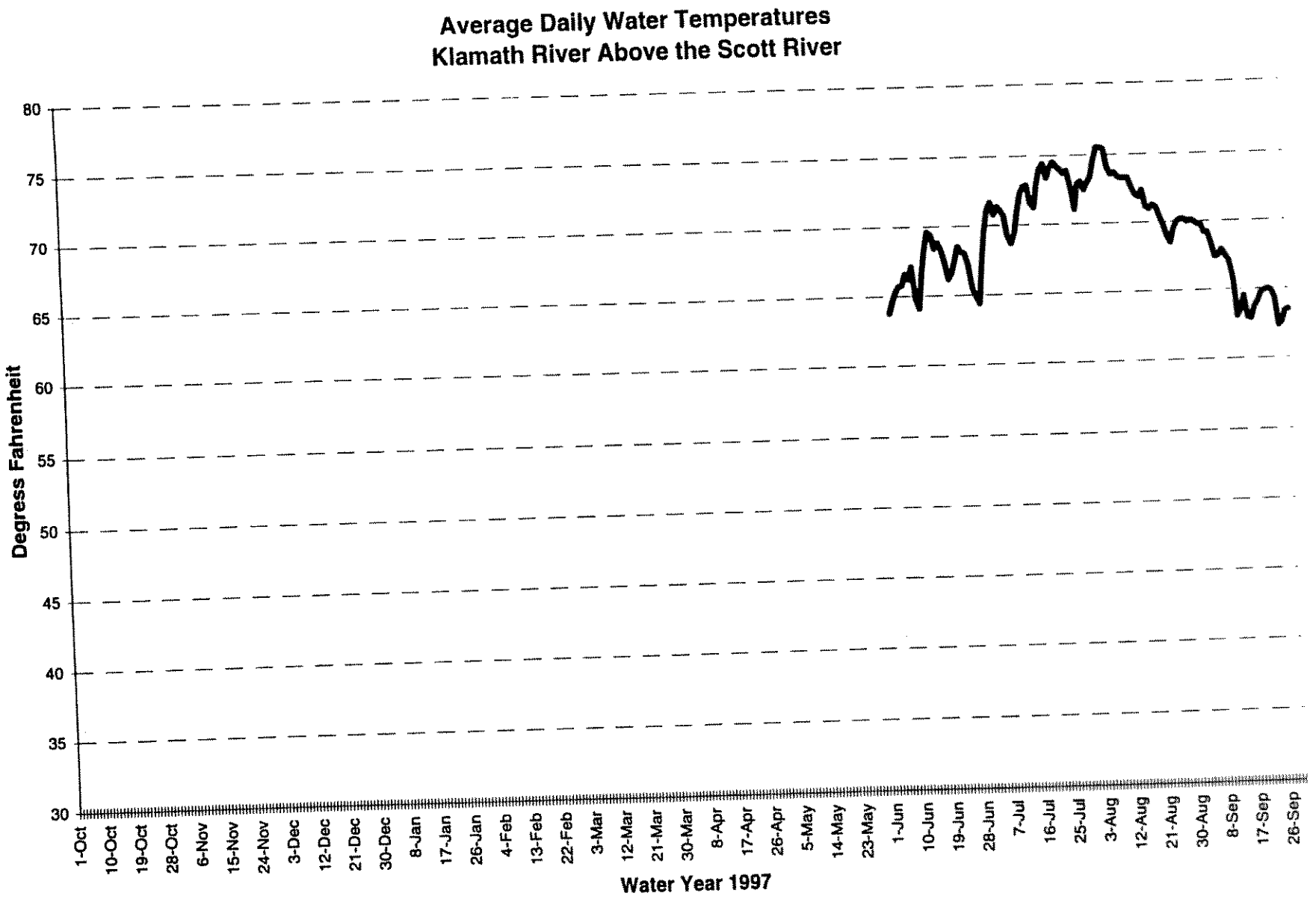

Average Daily Water Temperatures
Klamath River Below the Shasta River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Above the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	64.4	73.1	70.0
2	---	---	---	---	---	---	---	---	---	67.1	72.5	70.1
3	---	---	---	---	---	---	---	---	---	69.5	73.0	70.0
4	---	---	---	---	---	---	---	---	63.8	71.2	73.4	69.8
5	---	---	---	---	---	---	---	---	64.6	71.7	74.6	69.8
6	---	---	---	---	---	---	---	---	65.3	70.8	75.5	69.2
7	---	---	---	---	---	---	---	---	65.7	71.4	75.5	69.2
8	---	---	---	---	---	---	---	---	65.8	71.1	75.4	68.4
9	---	---	---	---	---	---	---	---	66.6	70.7	74.1	67.4
10	---	---	---	---	---	---	---	---	66.2	69.2	73.6	67.5
11	---	---	---	---	---	---	---	---	67.1	68.7	73.7	67.9
12	---	---	---	---	---	---	---	---	64.8	69.4	73.4	67.5
13	---	---	---	---	---	---	---	---	64.1	71.1	73.3	67.1
14	---	---	---	---	---	---	---	---	66.5	72.3	73.3	65.9
15	---	---	---	---	---	---	---	---	68.3	72.8	73.3	63.1
16	---	---	---	---	---	---	---	---	69.6	72.9	72.6	63.5
17	---	---	---	---	---	---	---	---	69.4	71.6	72.1	64.5
18	---	---	---	---	---	---	---	---	68.4	71.3	71.9	63.0
19	---	---	---	---	---	---	---	---	68.8	72.9	72.4	62.9
20	---	---	---	---	---	---	---	---	68.3	74.0	71.2	63.7
21	---	---	---	---	---	---	---	---	67.4	74.4	71.0	64.1
22	---	---	---	---	---	---	---	---	66.2	73.4	71.3	64.7
23	---	---	---	---	---	---	---	---	66.6	74.1	71.1	64.9
24	---	---	---	---	---	---	---	---	67.5	74.5	70.4	65.0
25	---	---	---	---	---	---	---	---	68.5	74.2	69.8	64.9
26	---	---	---	---	---	---	---	---	68.1	74.0	69.0	64.3
27	---	---	---	---	---	---	---	---	68.0	73.7	68.5	62.4
28	---	---	---	---	---	---	---	---	67.2	73.9	69.5	62.6
29	---	---	---	---	---	---	---	---	65.5	72.7	70.0	63.4
30	---	---	---	---	---	---	---	---	64.9	71.1	70.2	63.5
31	---	---	---	---	---	---	---	---	---	72.9	70.2	---
MEAN	---	---	---	---	---	---	---	---	---	71.7	72.2	66.0
MAX	---	---	---	---	---	---	---	---	---	74.5	75.5	70.1
MIN	---	---	---	---	---	---	---	---	---	64.4	68.5	62.4

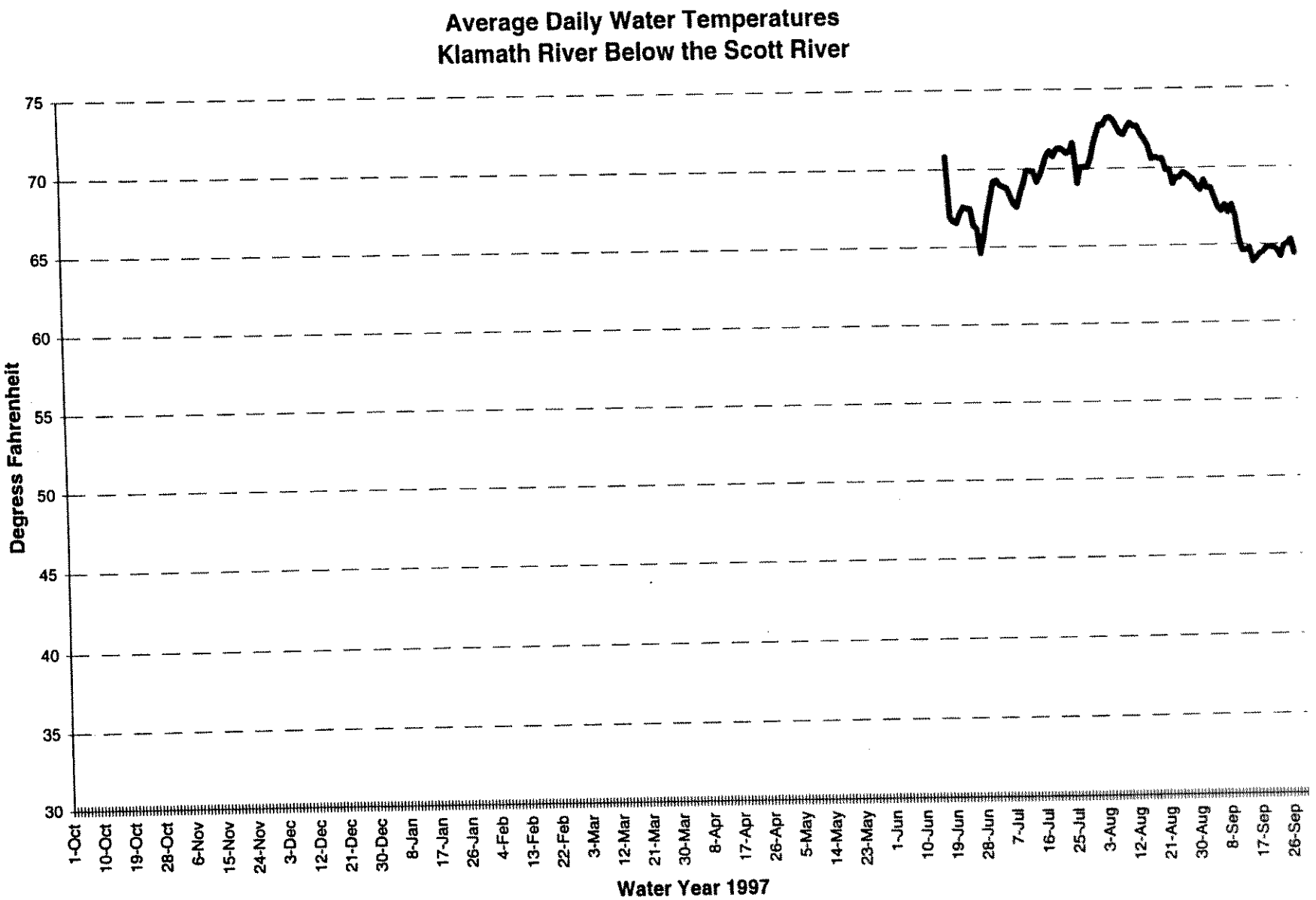

Average Daily Water Temperatures
Klamath River Above the Scott River
Degress Fahrenheit
80
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Below the Scott River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	65.6	70.1	69.2
2	---	---	---	---	---	---	---	---	---	67.1	70.6	68.8
3	---	---	---	---	---	---	---	---	---	68.1	71.5	68.6
4	---	---	---	---	---	---	---	---	---	69.2	72.1	69.2
5	---	---	---	---	---	---	---	---	---	69.3	72.7	68.7
6	---	---	---	---	---	---	---	---	---	69.0	72.7	68.7
7	---	---	---	---	---	---	---	---	---	68.9	73.1	68.1
8	---	---	---	---	---	---	---	---	---	68.8	73.2	67.5
9	---	---	---	---	---	---	---	---	---	68.3	73.0	67.2
10	---	---	---	---	---	---	---	---	---	67.8	72.6	67.6
11	---	---	---	---	---	---	---	---	---	67.6	72.2	67.1
12	---	---	---	---	---	---	---	---	---	68.5	72.1	67.6
13	---	---	---	---	---	---	---	---	---	69.1	72.5	66.9
14	---	---	---	---	---	---	---	---	---	69.9	72.8	65.4
15	---	---	---	---	---	---	---	---	---	69.9	72.6	64.6
16	---	---	---	---	---	---	---	---	---	69.8	72.6	64.6
17	---	---	---	---	---	---	---	---	---	69.2	72.1	64.8
18	---	---	---	---	---	---	---	---	---	69.6	71.8	63.9
19	---	---	---	---	---	---	---	---	---	70.2	71.4	64.1
20	---	---	---	---	---	---	---	---	70.8	70.8	70.6	64.4
21	---	---	---	---	---	---	---	---	67.0	71.1	70.7	64.5
22	---	---	---	---	---	---	---	---	66.7	70.8	70.6	64.8
23	---	---	---	---	---	---	---	---	66.6	71.2	70.6	64.8
24	---	---	---	---	---	---	---	---	67.2	71.3	69.9	64.8
25	---	---	---	---	---	---	---	---	67.6	71.2	69.9	64.6
26	---	---	---	---	---	---	---	---	67.5	71.0	69.0	64.2
27	---	---	---	---	---	---	---	---	67.5	71.1	69.4	64.9
28	---	---	---	---	---	---	---	---	66.4	71.6	69.4	65.0
29	---	---	---	---	---	---	---	---	66.2	69.1	69.7	65.3
30	---	---	---	---	---	---	---	---	64.6	70.1	69.6	64.4
31	---	---	---	---	---	---	---	---	---	70.1	69.4	---
MEAN	---	---	---	---	---	---	---	---	---	69.5	71.3	66.1
MAX	---	---	---	---	---	---	---	---	---	71.6	73.2	69.2
MIN	---	---	---	---	---	---	---	---	---	65.6	69.0	63.9


Average Daily Water Temperatures
Klamath River Below the Scott River
Degress Fahrenheit
75
70
65
60
55
50
45
40
35
30
1-Oct
10-Oct
19-Oct
28-Oct
6-Nov
15-Nov
24-Nov
3-Dec
12-Dec
21-Dec
30-Dec
8-Jan
17-Jan
26-Jan
4-Feb
13-Feb
22-Feb
3-Mar
12-Mar
21-Mar
30-Mar
8-Apr
17-Apr
26-Apr
5-May
14-May
23-May
1-Jun
10-Jun
19-Jun
28-Jun
7-Jul
16-Jul
25-Jul
3-Aug
12-Aug
21-Aug
30-Aug
8-Sep
17-Sep
26-Sep
Water Year 1997

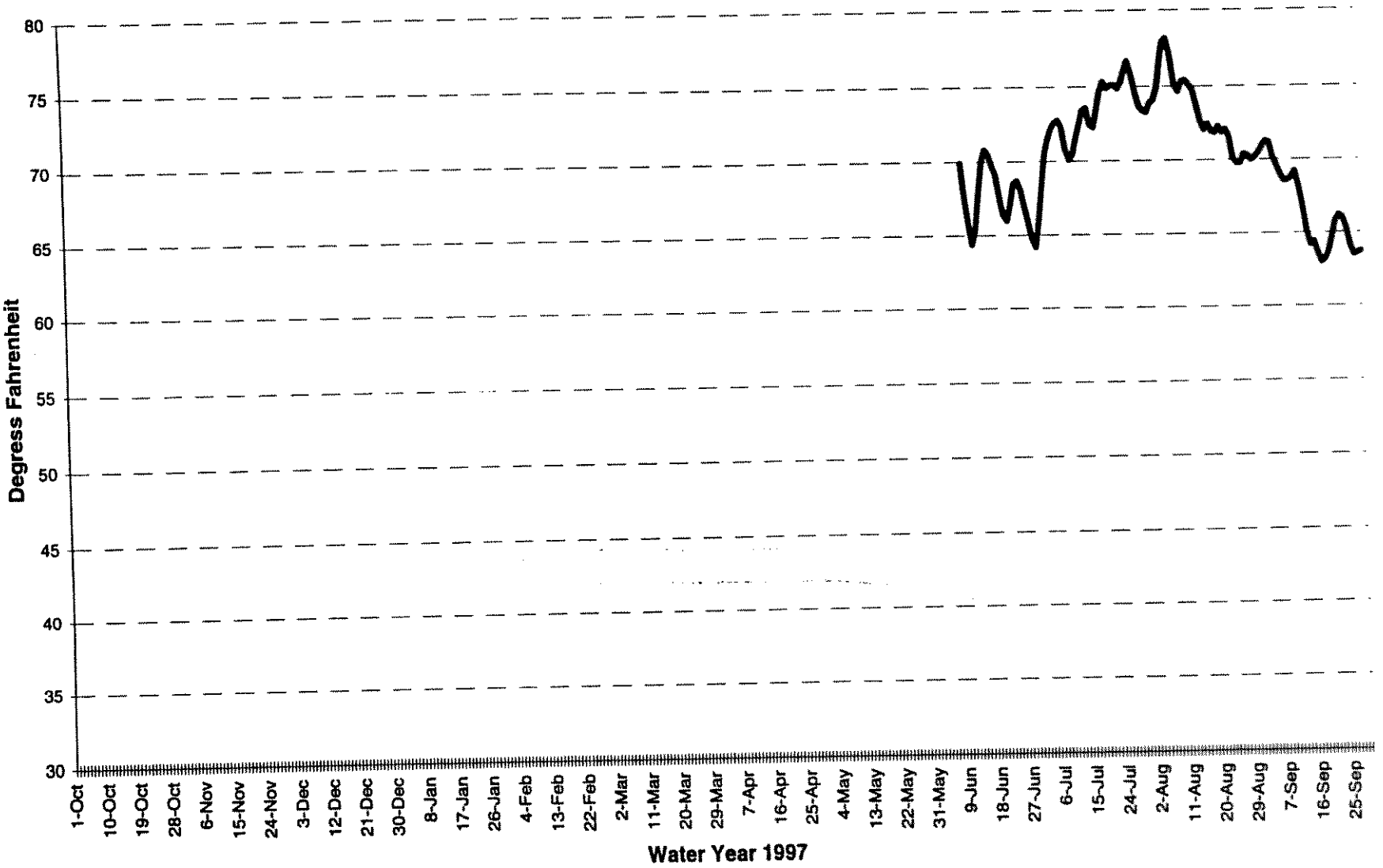
WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Above the Salmon River
Siskiyou County, California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	64.2	73.4	70.2
2	---	---	---	---	---	---	---	---	---	66.1	73.3	70.5
3	---	---	---	---	---	---	---	---	---	68.4	73.9	70.9
4	---	---	---	---	---	---	---	---	---	70.5	74.1	71.3
5	---	---	---	---	---	---	---	---	---	71.5	74.9	71.2
6	---	---	---	---	---	---	---	---	---	72.2	76.4	70.2
7	---	---	---	---	---	---	---	---	---	72.6	77.8	69.6
8	---	---	---	---	---	---	---	---	---	72.8	78.1	69.0
9	---	---	---	---	---	---	---	---	---	72.3	77.1	68.6
10	---	---	---	---	---	---	---	---	69.9	70.8	75.1	68.6
11	---	---	---	---	---	---	---	---	67.7	70.1	74.7	68.8
12	---	---	---	---	---	---	---	---	65.9	70.5	75.3	69.2
13	---	---	---	---	---	---	---	---	64.4	71.6	75.4	68.2
14	---	---	---	---	---	---	---	---	65.4	72.5	75.1	66.9
15	---	---	---	---	---	---	---	---	67.8	73.4	74.8	65.1
16	---	---	---	---	---	---	---	---	70.0	73.6	73.8	64.2
17	---	---	---	---	---	---	---	---	70.8	72.5	72.7	64.4
18	---	---	---	---	---	---	---	---	70.5	72.3	72.1	63.6
19	---	---	---	---	---	---	---	---	69.7	73.5	72.5	63.0
20	---	---	---	---	---	---	---	---	69.1	74.7	72.0	63.2
21	---	---	---	---	---	---	---	---	67.6	75.3	71.9	63.7
22	---	---	---	---	---	---	---	---	66.4	74.9	72.3	64.7
23	---	---	---	---	---	---	---	---	66.0	75.1	71.9	65.8
24	---	---	---	---	---	---	---	---	67.1	75.1	72.1	66.2
25	---	---	---	---	---	---	---	---	68.5	74.9	71.6	66.0
26	---	---	---	---	---	---	---	---	68.7	75.3	70.1	65.3
27	---	---	---	---	---	---	---	---	68.1	76.0	69.8	64.1
28	---	---	---	---	---	---	---	---	66.9	76.6	69.8	63.5
29	---	---	---	---	---	---	---	---	65.8	75.8	70.4	63.6
30	---	---	---	---	---	---	---	---	64.7	74.6	70.3	63.7
31	---	---	---	---	---	---	---	---	---	73.7	70.0	---
MEAN	---	---	---	---	---	---	---	---	---	72.7	73.3	66.8
MAX	---	---	---	---	---	---	---	---	---	76.6	78.1	71.3
MIN	---	---	---	---	---	---	---	---	---	64.2	69.8	63.0

Average Daily Water Temperatures
Klamath River Above the Salmon River



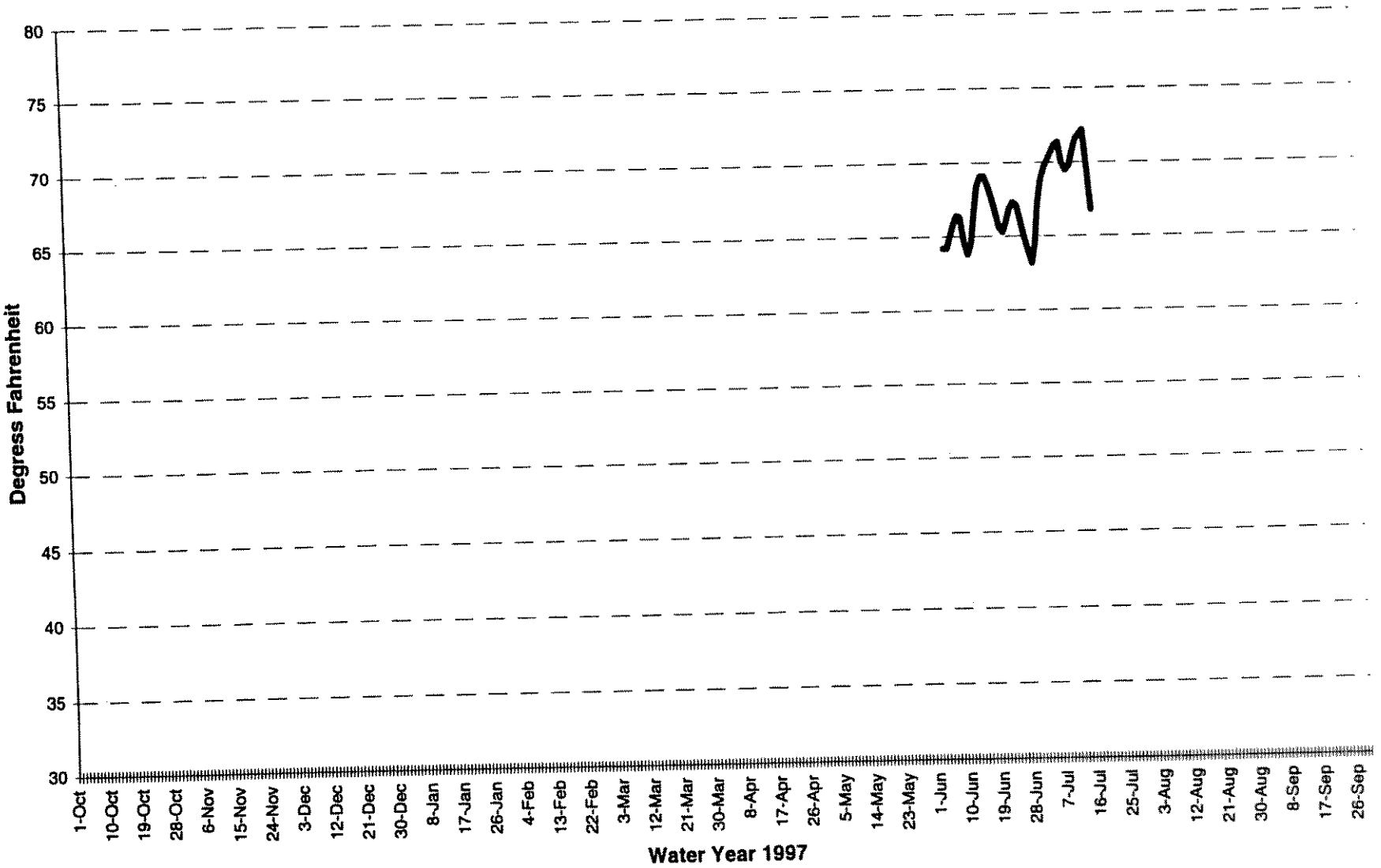
WATER YEAR - 1997

Water Temperatures, Klamath River Basin
Klamath River Above the Trinity River
Humboldt County California
Instrument : Ryan TempMentor
Karuk Tribe, Department of Natural Resources

Temperature, Degrees Fahrenheit, Water Year October 1996 to September 1997
Daily Mean Values

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	63.2	---	---
2	---	---	---	---	---	---	---	---	---	64.6	---	---
3	---	---	---	---	---	---	---	---	---	67.3	---	---
4	---	---	---	---	---	---	---	---	---	68.9	---	---
5	---	---	---	---	---	---	---	---	---	69.7	---	---
6	---	---	---	---	---	---	---	---	64.2	70.2	---	---
7	---	---	---	---	---	---	---	---	64.2	70.7	---	---
8	---	---	---	---	---	---	---	---	65.0	71.2	---	---
9	---	---	---	---	---	---	---	---	65.8	71.4	---	---
10	---	---	---	---	---	---	---	---	66.4	70.0	---	---
11	---	---	---	---	---	---	---	---	66.3	69.5	---	---
12	---	---	---	---	---	---	---	---	64.6	69.8	---	---
13	---	---	---	---	---	---	---	---	63.8	70.8	---	---
14	---	---	---	---	---	---	---	---	64.6	71.6	---	---
15	---	---	---	---	---	---	---	---	66.6	71.9	---	---
16	---	---	---	---	---	---	---	---	68.4	72.2	---	---
17	---	---	---	---	---	---	---	---	69.1	69.7	---	---
18	---	---	---	---	---	---	---	---	69.1	66.8	---	---
19	---	---	---	---	---	---	---	---	68.5	---	---	---
20	---	---	---	---	---	---	---	---	67.7	---	---	---
21	---	---	---	---	---	---	---	---	66.7	---	---	---
22	---	---	---	---	---	---	---	---	65.6	---	---	---
23	---	---	---	---	---	---	---	---	65.3	---	---	---
24	---	---	---	---	---	---	---	---	66.0	---	---	---
25	---	---	---	---	---	---	---	---	66.9	---	---	---
26	---	---	---	---	---	---	---	---	67.3	---	---	---
27	---	---	---	---	---	---	---	---	67.1	---	---	---
28	---	---	---	---	---	---	---	---	66.0	---	---	---
29	---	---	---	---	---	---	---	---	64.9	---	---	---
30	---	---	---	---	---	---	---	---	64.0	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

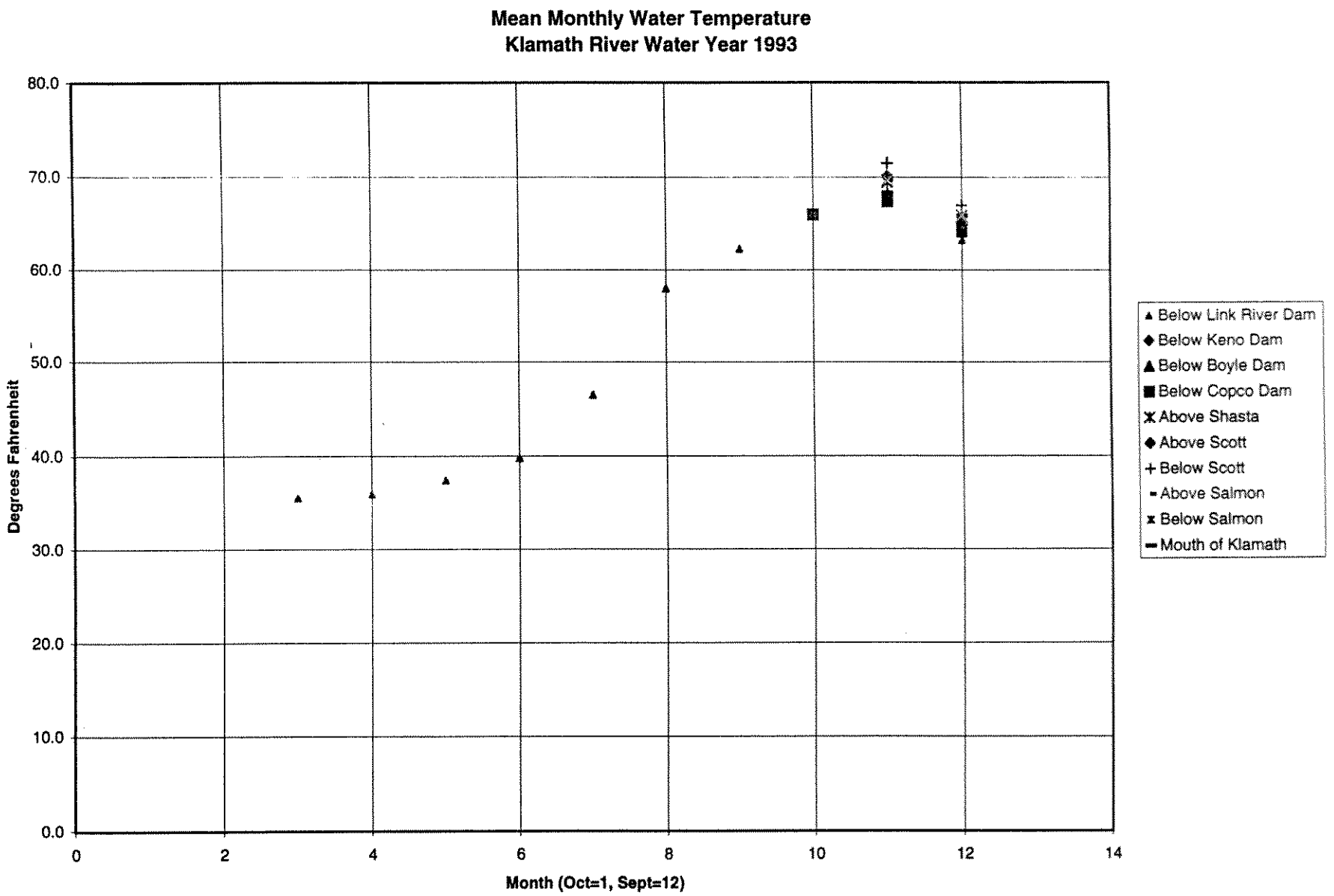
Average Daily Water Temperatures
Klamath River Above the Trinity River

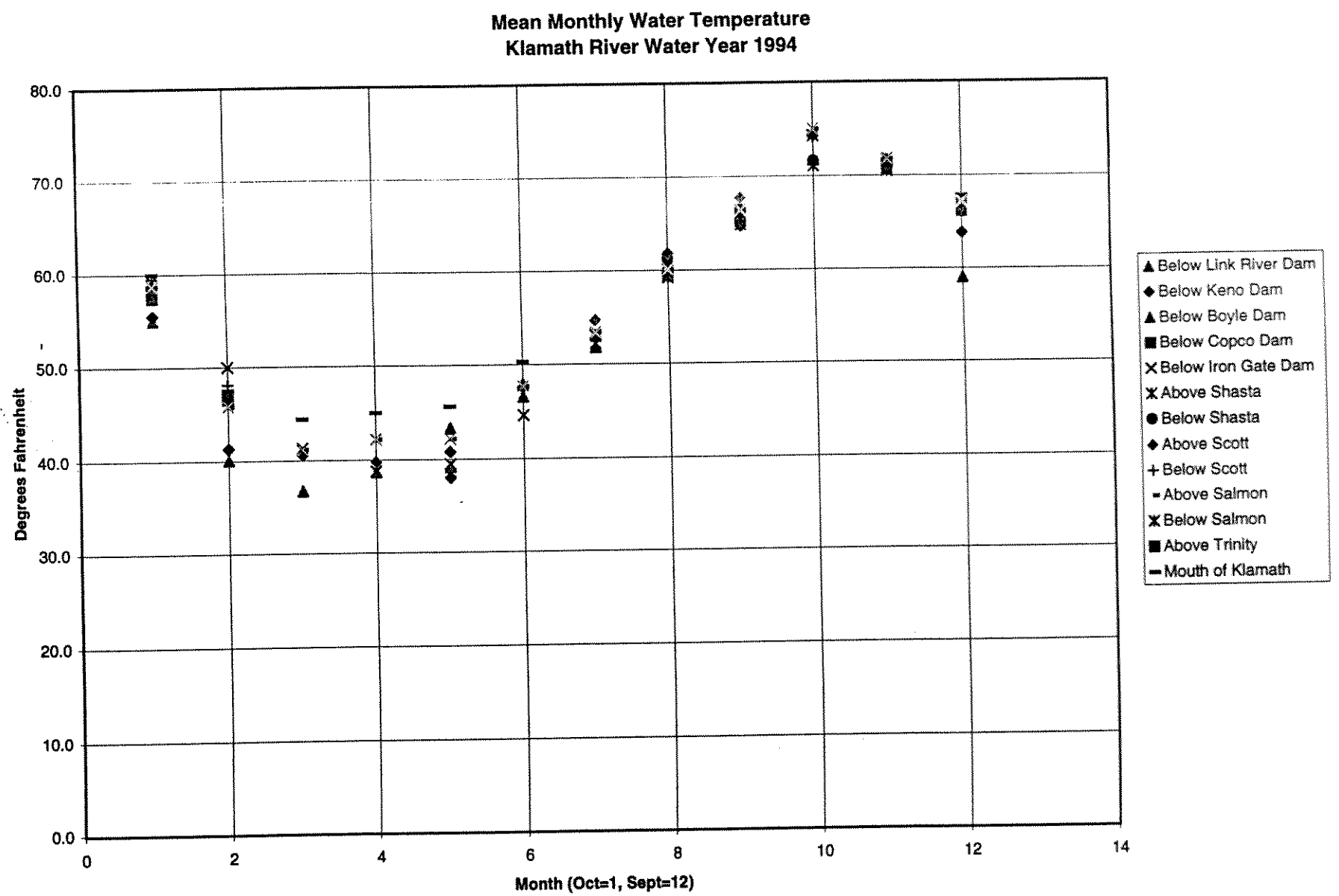


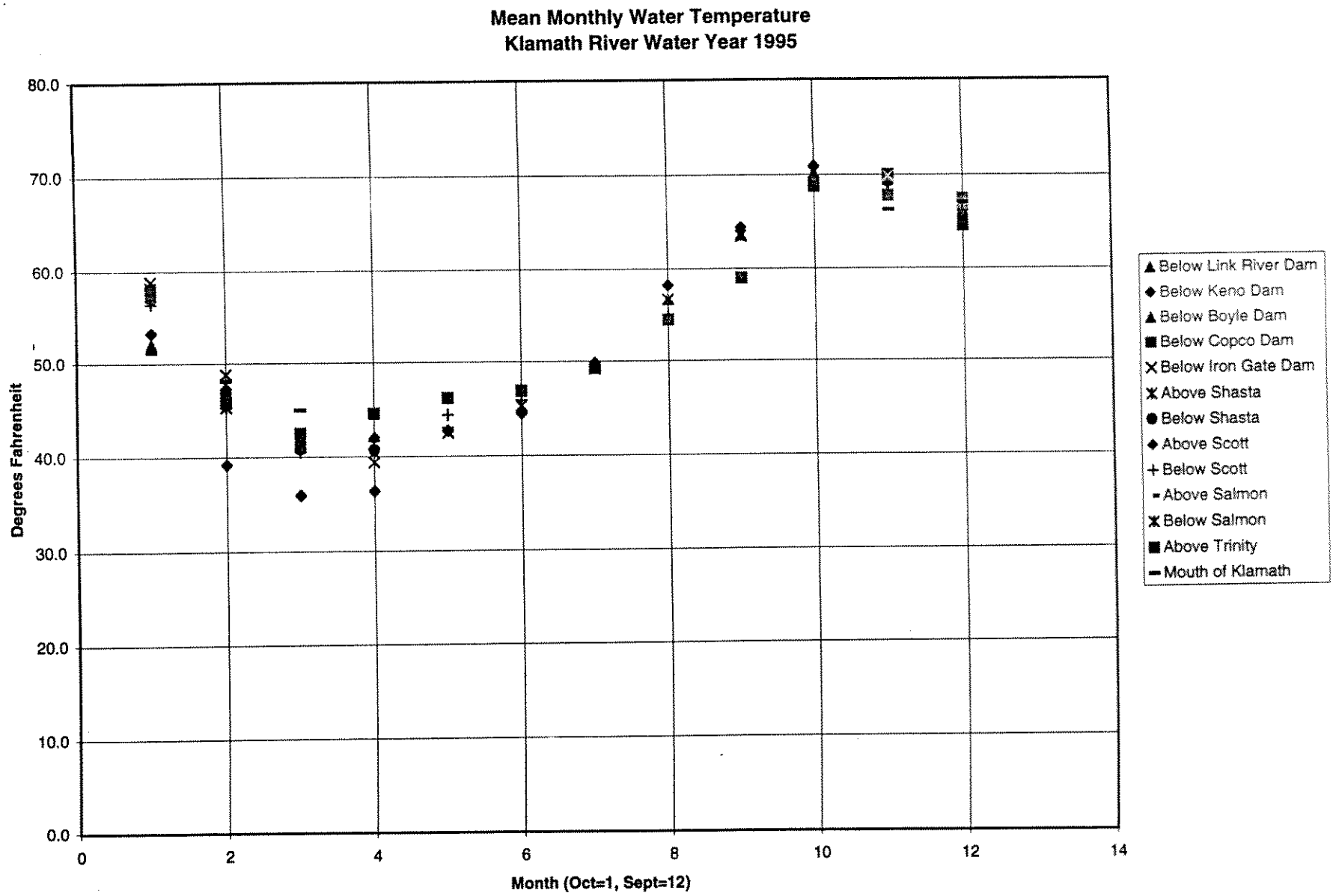
Appendix F

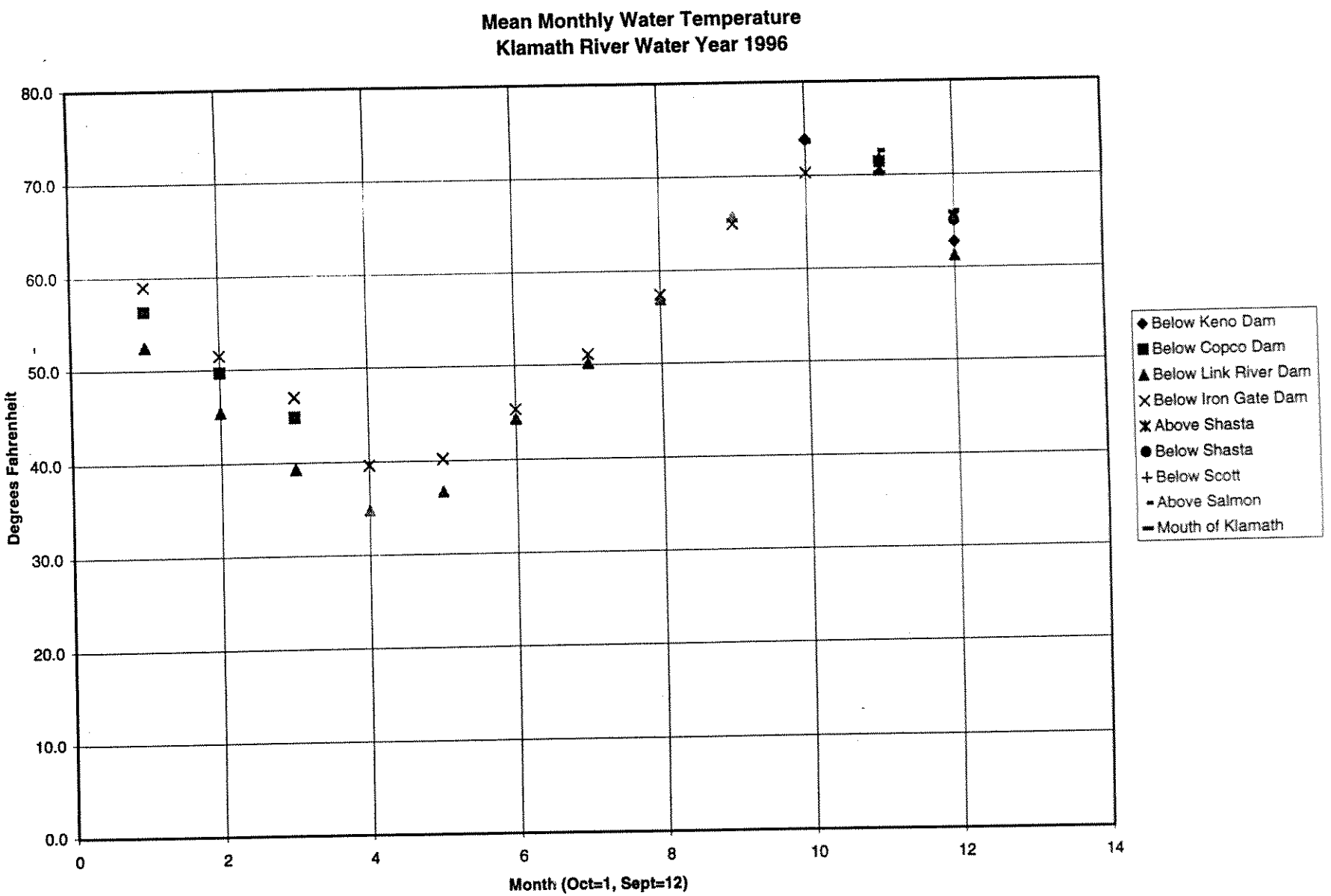
Mean Monthly Water Temperature
Klamath River Mainstem

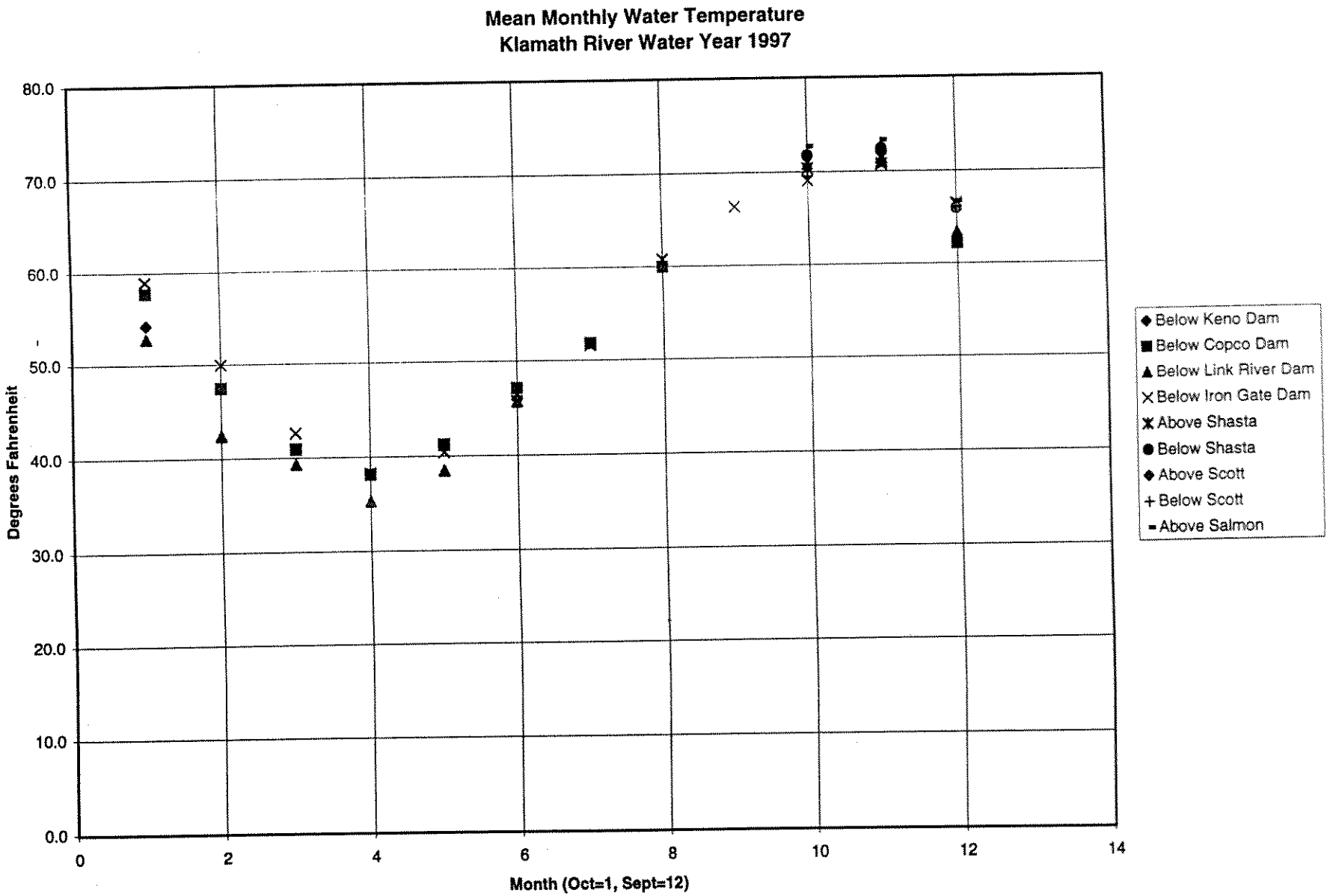
1993 - 1997 Water Years


Mean Monthly Water Temperature
Klamath River Water Year 1993
Degrees Fahrenheit
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
2
4
6
8
10
12
14
Month (Oct=1, Sept=12)
Below Link River Dam
Below Keno Dam
Below Boyle Dam
Below Copco Dam
Above Shasta
Above Scott
Below Scott
Above Salmon
Below Salmon
Mouth of Klamath


Mean Monthly Water Temperature
Klamath River Water Year 1994
Degrees Fahrenheit
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
2
4
6
8
10
12
14
Month (Oct=1, Sept=12)
Below Link River Dam
Below Keno Dam
Below Boyle Dam
Below Copco Dam
Below Iron Gate Dam
Above Shasta
Below Shasta
Above Scott
Below Scott
Above Salmon
Below Salmon
Above Trinity
Mouth of Klamath


Mean Monthly Water Temperature
Klamath River Water Year 1995
Degrees Fahrenheit
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
2
4
6
8
10
12
14
Month (Oct=1, Sept=12)
Below Link River Dam
Below Keno Dam
Below Boyle Dam
Below Copco Dam
Below Iron Gate Dam
Above Shasta
Below Shasta
Above Scott
Below Scott
Above Salmon
Below Salmon
Above Trinity
Mouth of Klamath


Mean Monthly Water Temperature
Klamath River Water Year 1996
Degrees Fahrenheit
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
2
4
6
8
10
12
14
Month (Oct=1, Sept=12)
Below Keno Dam
Below Copco Dam
Below Link River Dam
Below Iron Gate Dam
Above Shasta
Below Shasta
Below Scott
Above Salmon
Mouth of Klamath


Mean Monthly Water Temperature
Klamath River Water Year 1997
Degrees Fahrenheit
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
0
2
4
6
8
10
12
14
Month (Oct=1, Sept=12)
Below Keno Dam
Below Copco Dam
Below Link River Dam
Below Iron Gate Dam
Above Shasta
Below Shasta
Above Scott
Below Scott
Above Salmon