

STREAM FLOWS IN THE SNAKE RIVER BASIN
1989 CONDITIONS OF USE AND MANAGEMENT

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Introduction

Hydrologic evaluations of Snake River water supplies by the Idaho Department of Water Resources are performed by a digital model of the river system that simulates the operation of reservoirs, diversions and river flows under specified management controls. The computer program and data base were originally developed in the early 1970's and have been up-dated several times since. The model was developed for planning purposes, especially to evaluate alternatives of water use that were being considered in preparing the State Water Plan.

Results of prior studies have been used by a number of other entities including federal agencies, universities, power companies and consultants. The purpose of this report is to provide the results of the 1989-level base study and describe the nature of the model and general assumptions which have been used.

Because the river system has undergone almost continuous change in use and management, the past flow record is not indicative of present or other single point-in-time conditions. Meaningful analyses of the water supply requires removal of the trends in the data. This has been done by computing natural gains to the various river reaches by adding the regulation (diversions, reservoir storage changes, reservoir evaporation and return flow [-]). These natural gains are the data base upon which the model operates. The model then imposes present or other specified regulation for each of these parameters. The result is a set of model-computed regulated flows for a specified condition of development.

Model and Data Base

Monthly data for the period 1928-89 have been compiled for use in the model. It is assumed that water supplies during this period adequately represent the range and sequence of flows that might occur in the future. The model represents the flow system for the entire Snake River Basin in Idaho plus the headwater area in Wyoming. The data base, therefore, includes all reaches of the Snake and its tributaries where significant regulation occurs. Figures 1, 2 and 3 show schematically the extent and detail of the modeled system. The small x's shown on the figures define river reaches where flows are computed. In most cases, these are at U.S. Geological Survey gage sites.

The principal input data for the model are reach gains (G), which are the computed monthly natural gains within each reach.

$$G = O - I + D - R + \Delta S + E$$

where

O = outflow

I = inflow to reach

D = diversions within reach

R = return to flow to reach from diversions

ΔS = change in reservoir storage

E = net reservoir evaporation

Streamflows and reservoir content data are from U.S. Geological Survey gaging stations or, in some cases, have been estimated. Diversion data are available for canals in annual reports of Water District 1, which includes most of the Idaho basin above Milner Dam, Water Districts 37 and 37M, Big and Little Wood rivers, and Water District 63, Boise River. Recent Geological Survey data for approximately thirty-five diversions from the Snake River below Salmon Falls Creek have been used, with acreage histories, to estimate diversions in that area. Elsewhere, except for a few records from other sources, diversions have been estimated from acreage history data or have been omitted. Omission of diversions from the reach gain computation is satisfactory if the diversion

FIGURE 1
SNAKE RIVER BASIN ABOVE MURPHY
SCHEMATIC DIAGRAM OF MODELED SYSTEM

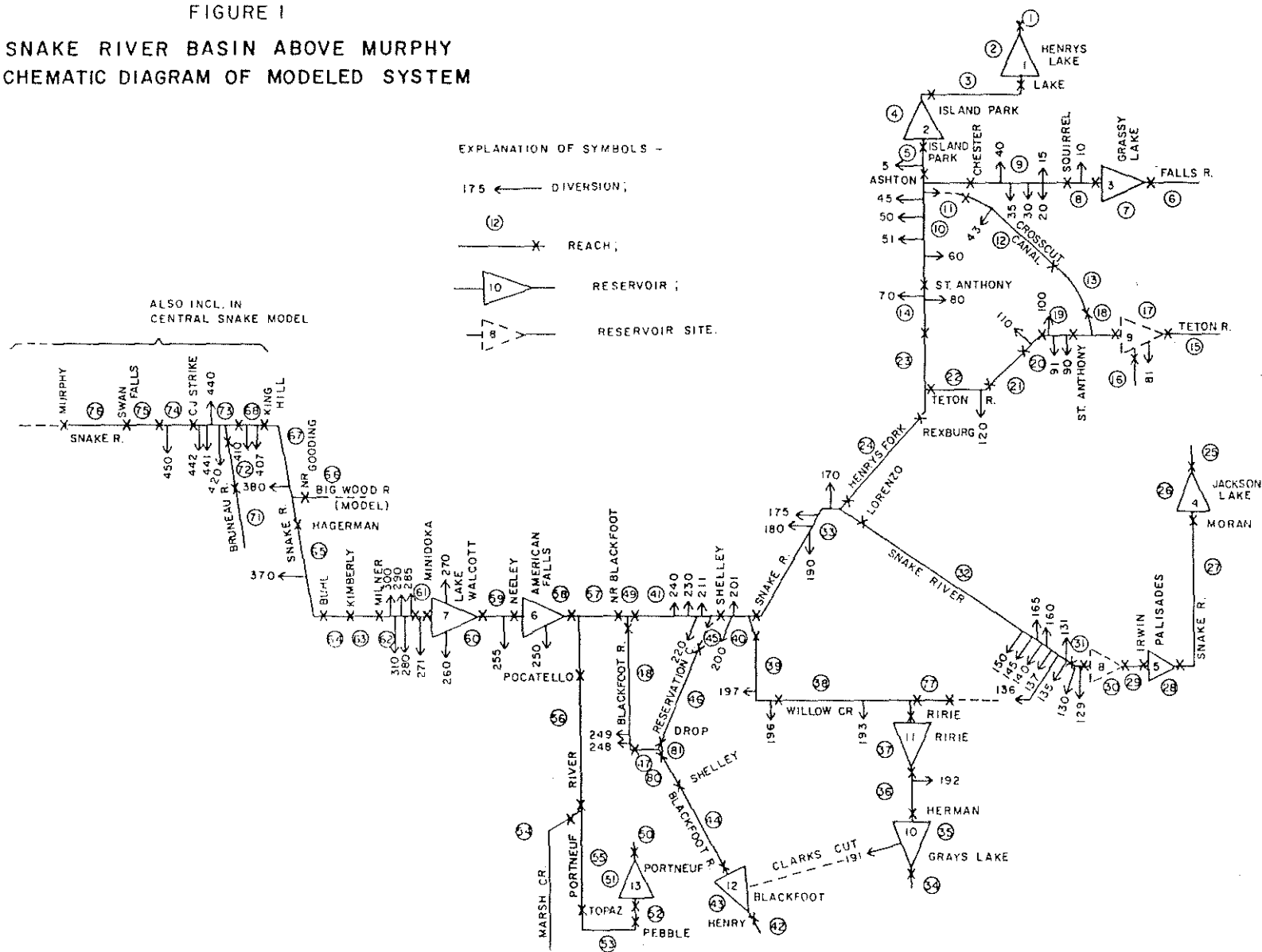


FIGURE 2
BIG WOOD RIVER BASIN
SCHEMATIC DIAGRAM OF MODELED SYSTEM

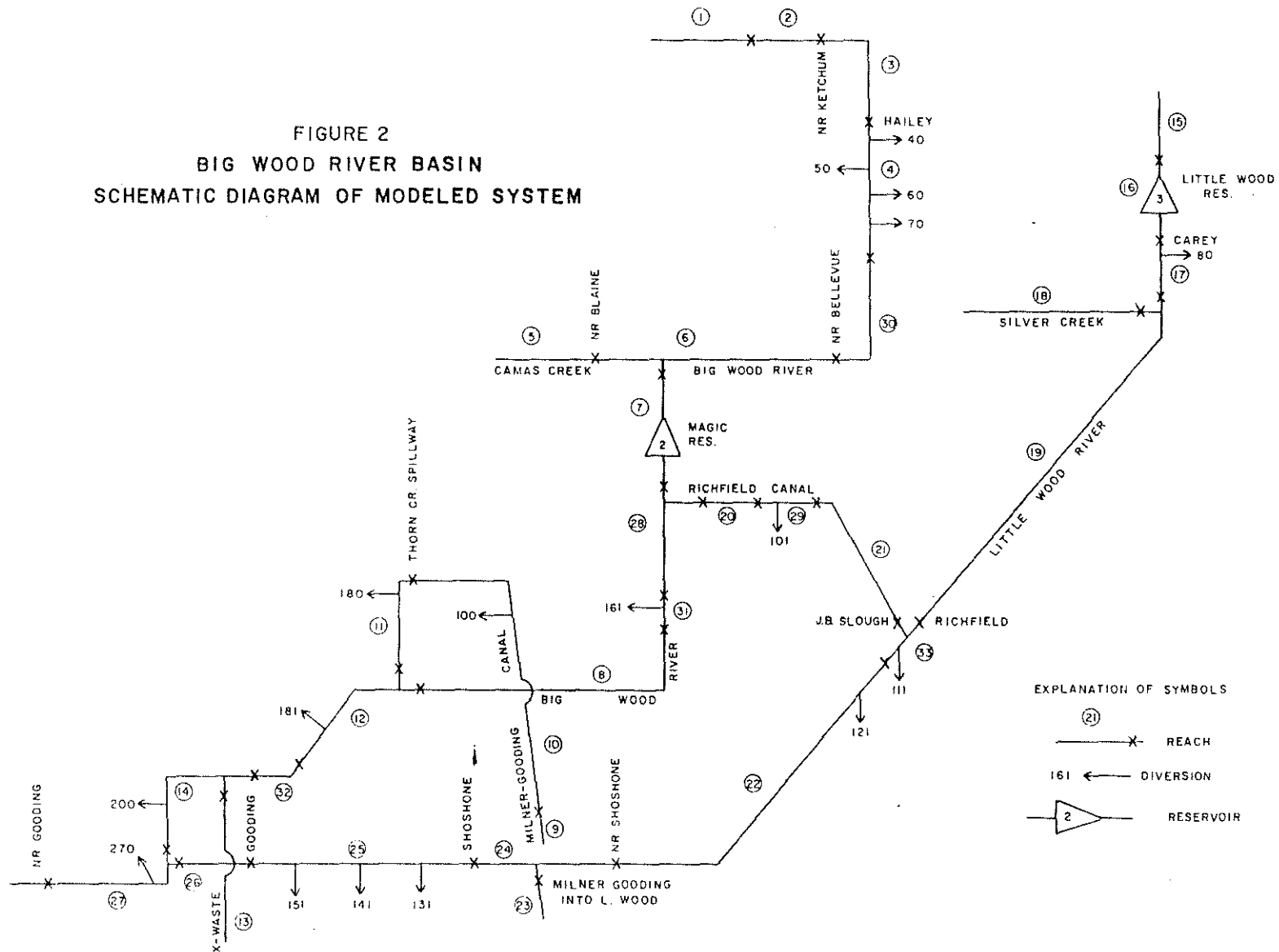
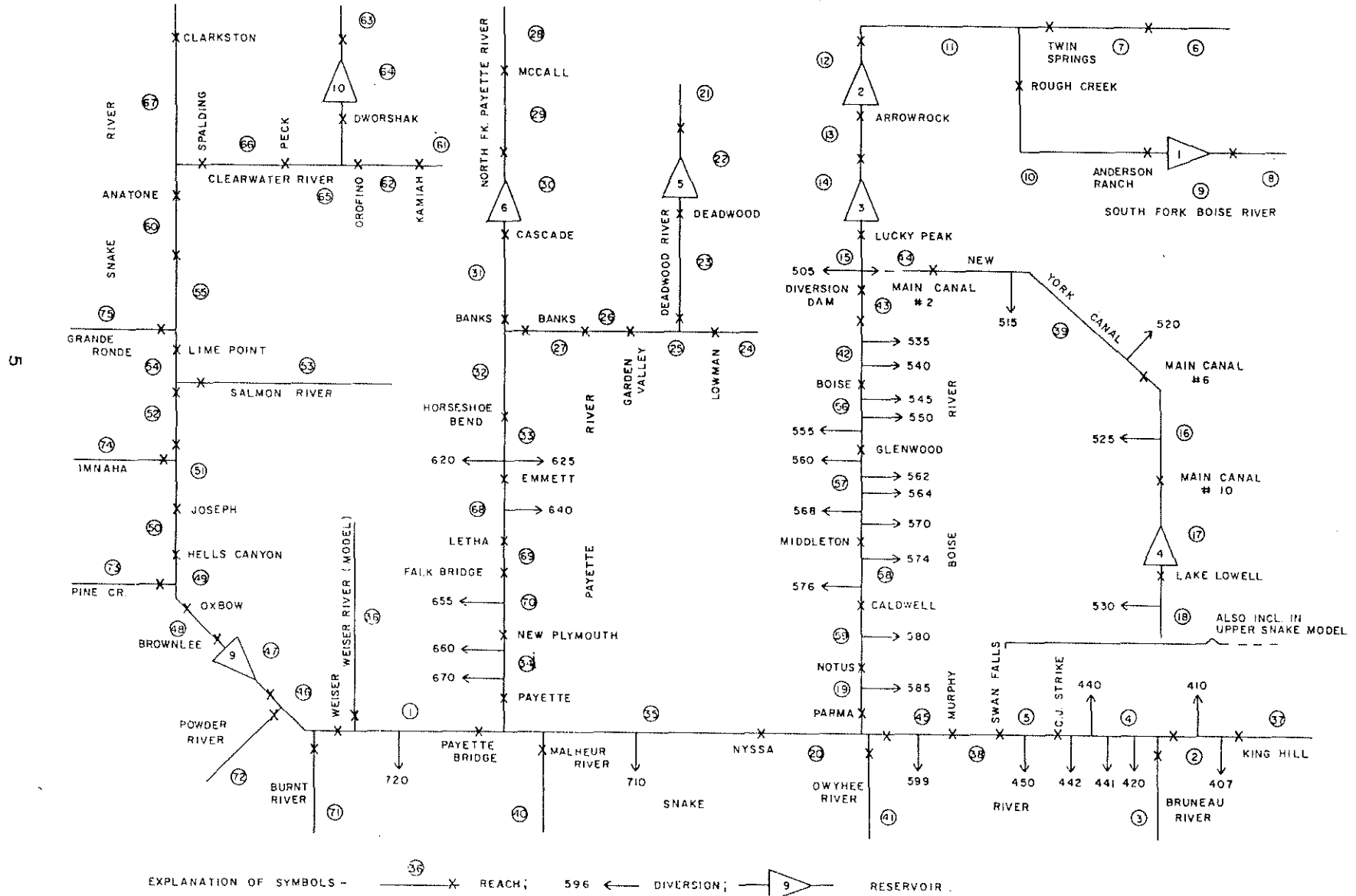


FIGURE 3

SNAKE RIVER BASIN KING HILL TO CLARKSTON - SCHEMATIC DIAGRAM OF MODELED SYSTEM



rates have been stable throughout the study period and there is no reason to believe they would change in the future.

There are very little available data on return flows from irrigation. Studies by the Bureau of Reclamation, Geological Survey, University of Idaho and Water District 1 have produced limited data on returns that have been used to develop ratios of return to diversion. These ratios, called "lag factors," represent those portions of the diversion in a month that return to the river during the same month and in succeeding months. The lag factors have been applied to the historic diversions to compute estimated historic return flows.

For river reaches which include a reservoir, the change in storage is the difference in content from the end of the previous month to that of the current month. For run of river power reservoirs where little or no storage fluctuation occurs on a monthly basis, ΔS is assumed to be zero, except for the initial fill of the reservoir if it was built during the study period.

Monthly reservoir evaporation is estimated from end-of-month contents, the reservoir area-capacity table and average monthly pan evaporation data adjusted to lake evaporation rates. Average evaporation rates used have been adjusted to result in net rates after average precipitation.

The model accumulates reach gains in downstream order, makes diversions, stores excess flows in downstream reservoirs and meets specified flow requirements in certain reaches. No travel time adjustments are made in computing downstream flows. When the gains are insufficient to satisfy diversion requirements or the assigned flows, additional water is called from a sequence of upstream reservoirs. By specifying reservoir call sequences and use of layers of reservoir storage to meet downstream diversions and assigned flows, the model can be made to simulate a system management scheme. Flood control releases are also simulated by the model, normally through the use of runoff forecast-space requirement rule curves. Description of specific modeling procedures is beyond the scope of this report.

Model output includes a compilation of computed flows at each reach end point, end-of-month reservoir contents, magnitude of diversions and any shortages of meeting diversions or assigned flows.

Present Conditions of River Management

Management of the Snake River system has undergone significant change in the period of available hydrologic record. New reservoirs have been constructed, new irrigation systems built and methods of operation changed. General assumptions were made defining a present condition operation which would best correct for changes that have occurred. Three basic assumptions were:

- (a) "Present is the year of 1989 or period preceding 1989 which indicates a stable condition for particular data or criteria being considered;
- (b) All present structural controls exist throughout the entire period of operation;
- (c) All structures are operated throughout the period to reflect the present type of operation.

There are more than 100 canals that divert from the Snake River and Henrys Fork and more than 40 that divert from the Boise and Payette rivers for which diversion records are kept. To simplify calculations, canal diversions were grouped according to similarity of location and return flow pattern.

Some canals did not exist for the entire 1928-89 period, and others have markedly changed their timing and quantity of diversions. Historic diversion data were analyzed month by month to determine the nature of present and past diversion levels. In order to reflect present diversion practices, past diversions were adjusted up or down by the ratio of present-to-past level. Adjusted data were not allowed to fall outside of the second highest and second lowest values of the present level period.

The operation of Jackson Lake, Palisades, Henrys Lake, Island Park, Grassy Lake, Ririe, Blackfoot, American Falls and Lake Walcott reservoirs in the Upper Snake Basin was simulated. Magic

and Little Wood reservoirs in the Wood River Basin were also simulated. The Boise River reservoirs (including Lake Lowell), Deadwood, Brownlee and Dworshak reservoirs were simulated in the Central Snake Basin. For these reservoirs, total inflow, outflow and end-of-month contents were generated under existing management criteria.

Ground-water conditions have also changed in some areas of the Snake River Basin during the 1928-89 study period. Irrigation systems have substantially increased recharge causing water levels to rise and aquifer discharge to increase. Adjustments were made in river gains in the Thousand Springs area to reflect increased ground-water return.

Simulation of river system management was achieved by imposing operating rules on the model to cause it to compute river flows and reservoir contents that approximately duplicated the observed values at each location in recent years. When river and reservoir hydrographs were reasonably well reproduced throughout the river basin, the control criteria were assumed to be satisfactory. The same control criteria were then used to simulate river management throughout the 1928-89 period using the adjusted diversions and ground-water flow data.

In general, good results were obtained where year-to-year management has been stable. Some of the differences between observed and computed flows and contents are the result of deviations from "normal" operations that occur.

Tables 1 through 16 show computed flows for 1989 conditions at principal gage sites in the Snake River Basin.

Annual flow at Milner under present conditions averages 2,484,000 acre-feet per year, an increase of about 453,000 acre-feet per year from the previous base study. Most of this increase is due to reductions in diversions which began after 1977 and continued through the 1984-89 period. The seasonal distribution of Milner flow has also continued to change. Summertime flows of 300 cfs or greater now occur in all but the driest years. This is primarily due to annual purchases of stored water from the Upper

Snake Rental Pool by Idaho Power Company for delivery to powerplants below Milner during the summer-fall period.

The lowest computed mean monthly flow at Murphy is 5,618 cfs in July, 1961. Long-term computed July flows averaged 7,165 cfs and in 97 percent of the years, July flow exceeded 6,000 cfs.

The lowest computed mean monthly flow of Snake River at Weiser is 6,871 cfs. The required minimum daily flow at Weiser is 4,750 cfs. Mean monthly flows of less than 8,000 cfs occurred in about eight percent of all years.

Flows and reservoir contents at other locations shown on Figures 1, 2 and 3 are also available from the Idaho Department of Water Resources.

TABLE 1. SNAKE RIVER NEAR HEISE
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	170.3	231.8	237.0	193.9	185.5	146.5	1106.5	982.9	920.4	752.8	507.8	534.3	5969.7
29	231.3	264.3	243.4	174.4	160.1	146.3	127.5	612.1	851.8	727.9	565.2	344.2	4448.5
30	169.6	156.1	182.0	156.5	145.7	146.2	141.1	603.6	872.8	790.0	556.0	464.3	4383.8
31	170.0	97.2	170.4	153.7	143.4	146.0	153.7	571.1	759.3	761.9	578.0	357.5	4062.2
32	163.1	104.4	86.7	129.7	118.0	136.4	119.4	374.4	523.7	908.1	874.5	560.0	4098.4
33	299.8	122.1	130.8	124.1	104.9	105.0	102.3	349.2	650.0	771.6	830.1	577.5	4167.4
34	313.6	134.8	94.3	101.9	90.9	114.9	186.1	668.0	704.3	480.0	285.6	237.0	3411.5
35	140.7	85.9	74.8	119.6	100.7	134.4	159.9	380.3	727.0	932.2	664.1	572.8	4092.3
36	169.4	91.8	99.7	119.3	105.5	97.8	99.6	558.2	993.6	751.6	573.1	584.8	4244.2
37	297.0	112.2	98.0	177.1	131.5	120.1	108.6	449.7	646.9	742.9	726.8	521.7	4132.6
38	267.5	132.1	91.3	124.6	106.0	104.2	210.8	666.6	915.6	648.2	569.3	442.5	4278.7
39	231.2	263.8	238.0	177.2	146.7	146.3	188.2	803.1	718.1	784.9	599.8	417.3	4714.6
40	169.3	116.1	112.0	112.1	105.0	130.1	127.2	490.7	636.0	816.9	634.1	531.3	3980.7
41	169.1	94.7	94.1	99.2	73.2	98.2	102.4	493.2	665.4	746.6	523.4	507.0	3666.5
42	282.4	108.8	79.5	102.5	81.8	107.9	109.6	336.6	665.6	755.1	646.6	465.6	3742.1
43	271.3	96.5	98.2	96.3	87.8	521.7	1042.6	938.9	863.6	797.9	605.6	405.1	5825.4
44	231.6	265.7	271.9	188.8	165.0	146.0	126.0	426.3	858.0	696.8	565.8	324.3	4266.1
45	169.3	134.8	167.1	156.9	144.1	145.9	288.0	792.4	705.9	656.5	542.8	573.5	4477.2
46	231.3	264.3	271.2	181.1	149.0	147.2	453.5	966.9	1060.0	746.4	504.7	316.3	5291.9
47	231.3	263.9	252.7	162.3	157.0	146.3	778.0	670.5	853.6	742.2	593.7	374.3	5225.8
48	231.1	263.7	231.1	172.9	152.8	145.9	128.9	872.7	1146.3	706.4	501.4	326.2	4879.5
49	169.4	201.9	183.3	155.0	146.2	406.8	498.6	686.0	879.0	719.3	495.8	374.5	4915.9
50	177.0	166.4	181.4	167.2	155.5	150.9	1076.2	839.4	823.8	909.9	568.6	438.3	5654.6
51	234.9	266.4	273.8	317.9	308.6	515.6	815.0	930.4	759.1	784.2	648.8	441.5	6296.2
52	234.1	263.9	270.9	339.5	214.5	180.1	855.0	748.0	1117.6	677.6	478.3	444.8	5824.2
53	233.0	267.1	182.4	178.6	151.9	142.3	121.4	818.7	880.5	717.0	556.4	379.0	4628.4
54	167.1	240.6	176.2	167.6	145.9	141.4	925.0	814.9	640.9	647.8	590.3	368.2	5026.1
55	178.3	255.6	173.2	156.9	141.0	138.4	114.6	523.1	840.2	682.7	500.1	341.9	4046.2
56	160.5	148.1	222.5	183.8	303.9	555.4	849.0	1111.9	1118.4	755.4	518.6	539.4	6466.9
57	231.2	263.0	228.3	173.9	159.4	147.8	910.5	835.8	802.3	746.0	538.8	483.5	5520.6
58	232.8	260.9	228.0	170.5	152.6	148.1	128.3	887.3	889.3	763.6	482.2	321.4	4665.1
59	168.7	98.1	97.5	137.9	145.0	146.4	358.3	844.0	729.3	729.4	530.1	378.9	4363.5
60	168.7	95.9	158.3	164.1	150.8	150.3	132.0	562.6	749.4	791.9	770.8	537.1	4432.0
61	231.6	84.8	105.1	133.3	89.6	119.3	136.8	596.4	711.3	767.0	530.4	233.4	3738.9
62	276.1	86.7	103.1	112.0	69.8	73.6	502.4	680.3	840.0	664.0	540.8	374.5	4323.3
63	231.0	260.8	206.5	155.0	159.4	144.2	223.3	442.5	1156.3	776.1	527.3	308.0	4590.4
64	234.6	163.9	167.1	158.0	142.5	139.4	777.7	766.8	767.9	734.0	489.8	530.7	5072.3
65	244.5	267.5	235.0	193.3	284.4	460.0	862.4	910.5	907.3	906.3	605.6	470.2	6347.0
66	235.0	265.0	276.1	232.8	159.8	148.8	185.2	830.7	801.5	748.6	519.3	356.3	4759.0
67	198.9	96.8	98.1	100.4	97.1	152.0	688.2	702.9	840.1	807.4	488.4	496.2	4766.4
68	240.5	266.8	278.8	193.5	167.1	147.2	243.2	883.2	833.5	703.7	405.7	432.5	4795.7
69	231.7	267.2	277.7	298.5	336.3	423.3	153.5	886.1	784.0	667.8	503.9	330.7	5160.7
70	197.4	244.2	175.3	171.7	145.5	149.5	589.1	666.1	961.0	689.5	513.9	361.1	4864.4
71	222.5	255.0	264.8	349.2	349.6	530.0	807.0	1123.1	1248.8	1161.8	651.1	480.2	7443.2
72	265.8	273.6	275.3	437.1	383.2	755.4	690.0	1105.7	1023.3	630.0	558.7	459.4	6857.5
73	261.9	266.7	270.0	380.5	156.4	146.0	126.2	674.6	877.1	593.7	461.2	330.3	4544.6
74	232.6	268.8	254.2	183.0	193.4	265.3	1106.1	969.3	1307.1	933.5	549.3	408.2	6671.0
75	262.4	282.4	284.6	210.0	177.6	234.6	825.1	672.9	868.6	949.2	598.7	422.9	5788.9
76	236.7	269.5	281.1	326.7	295.9	540.4	786.2	1123.3	874.3	589.5	499.1	419.6	6242.2
77	241.7	264.8	267.2	179.7	164.1	146.1	167.8	567.3	660.4	716.9	503.6	282.7	4162.1
78	140.7	90.8	70.4	72.2	67.8	106.5	258.6	945.9	851.2	867.3	563.7	426.9	4462.2
79	222.4	265.8	266.5	225.8	161.6	190.0	435.5	713.7	869.9	673.9	447.4	386.8	4859.4
80	161.4	162.1	158.5	168.8	153.5	128.3	287.9	825.8	1109.0	736.8	476.3	435.8	4804.0
81	235.6	262.0	203.6	165.2	146.1	145.4	123.7	440.5	1038.2	785.4	589.4	422.9	4558.0
82	166.9	94.6	91.7	97.9	85.2	501.7	764.4	1123.2	1001.7	1066.3	677.5	485.1	6156.1
83	290.7	269.5	274.3	449.4	193.0	214.0	529.2	828.2	1352.4	1048.4	638.5	474.6	6562.1
84	293.3	324.7	320.9	523.3	219.3	278.7	671.1	729.8	1366.2	924.2	598.4	473.0	6722.9
85	260.8	264.7	271.2	440.1	164.1	151.4	344.2	1007.6	826.4	715.2	483.6	248.6	5177.7
86	190.4	274.5	209.4	194.8	169.7	853.1	830.9	1006.9	1584.6	901.5	596.6	465.2	7277.8
87	249.9	269.5	264.5	322.9	165.2	147.8	238.8	677.4	681.3	688.6	566.7	428.0	4700.6
88	257.1	66.6	74.5	76.8	86.0	100.7	114.2	632.2	763.8	800.8	579.7	422.6	3975.2
89	297.6	70.6	64.6	66.7	62.0	76.7	387.0	650.8	712.5	794.0	554.7	527.6	4264.9
AVG	222.2	197.3	190.2	192.8	159.3	216.5	427.4	738.6	880.4	769.1	562.0	425.5	4981.4

US130

TABLE 2. DISCHARGE, HENRYS FORK NEAR REXBURG, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	135.6	126.0	93.6	95.0	84.2	88.9	102.3	406.5	193.3	108.6	82.1	79.5	1595.8
29	102.5	103.7	79.7	63.0	57.6	68.1	104.2	212.8	202.5	80.6	56.5	76.3	1207.5
30	92.5	93.0	77.2	59.0	60.8	66.8	94.9	85.4	62.7	44.1	64.2	52.7	853.4
31	82.6	81.1	56.4	53.9	54.3	51.4	27.8	47.5	25.1	38.5	12.9	13.6	545.2
32	18.1	38.9	46.6	46.7	41.1	35.0	56.1	230.3	220.6	110.5	68.3	69.6	981.8
33	73.8	79.8	61.5	63.3	61.9	62.0	87.5	157.6	208.0	52.7	42.9	54.8	1005.9
34	42.6	68.7	53.9	54.2	49.8	54.4	39.1	21.9	19.2	28.0	14.0	27.2	473.0
35	30.8	30.7	30.8	36.2	30.7	29.3	34.6	111.3	133.2	57.8	33.5	44.4	603.3
36	44.6	66.0	51.0	53.5	56.6	46.1	112.4	268.4	171.6	61.4	47.7	37.4	1016.6
37	57.5	69.1	46.5	49.0	49.2	46.9	55.5	158.9	121.3	56.4	43.1	40.1	793.4
38	58.8	59.1	57.6	53.3	52.6	55.8	100.9	281.8	233.2	136.8	84.4	67.3	1241.6
39	93.9	105.9	69.7	68.3	64.4	90.7	166.4	210.7	113.6	58.0	58.1	65.6	1165.3
40	96.4	79.8	64.2	66.1	67.6	69.1	98.2	207.0	142.9	42.7	36.5	51.4	1021.9
41	80.4	80.0	67.8	63.4	59.3	71.6	77.5	145.1	102.4	58.9	63.7	62.7	932.9
42	86.9	78.9	74.5	60.8	53.3	50.1	106.2	183.1	157.9	73.5	55.8	64.3	1045.2
43	78.4	92.5	72.9	67.6	59.5	79.7	221.5	283.6	274.6	177.3	105.2	97.1	1610.0
44	116.5	120.4	85.1	83.7	81.7	77.2	107.8	162.1	170.9	87.0	57.8	85.5	1235.8
45	95.7	98.6	77.1	69.2	65.0	72.5	78.8	246.2	269.9	156.4	114.2	103.6	1447.3
46	118.4	108.5	84.0	82.2	83.5	99.7	218.5	238.9	147.8	64.1	69.9	95.3	1410.9
47	122.1	110.5	78.4	71.5	79.7	60.8	93.0	247.2	192.7	87.1	92.4	91.7	1327.3
48	112.2	109.9	80.4	79.1	78.4	75.6	126.5	277.3	251.2	74.4	87.4	87.1	1439.6
49	105.9	104.8	74.1	62.3	59.0	84.9	125.9	355.1	230.6	80.6	92.0	77.9	1453.2
50	122.5	102.8	71.1	69.5	83.9	96.4	153.2	194.5	280.8	179.6	110.1	121.7	1586.1
51	135.6	122.7	90.5	78.3	82.6	89.8	162.2	281.1	150.0	96.0	165.3	107.2	1561.3
52	126.2	114.7	96.9	93.3	105.9	98.7	201.7	431.0	271.6	106.8	108.2	100.0	1854.9
53	91.2	101.0	97.9	109.4	89.7	77.7	97.8	162.3	259.7	91.8	81.4	75.3	1335.2
54	84.2	96.1	79.0	80.4	82.1	74.6	118.3	227.5	134.2	116.2	99.9	71.6	1264.0
55	98.4	93.1	79.1	76.7	65.1	73.7	112.6	167.1	168.3	88.2	83.9	81.9	1188.2
56	95.3	102.6	100.7	85.4	70.9	93.4	155.2	308.9	254.2	108.7	109.0	98.5	1583.1
57	108.8	113.4	87.6	71.5	80.8	90.2	102.4	372.3	308.5	153.1	108.3	105.2	1702.2
58	109.0	99.3	86.4	76.7	84.0	71.2	110.4	279.2	150.8	58.7	84.2	77.7	1287.5
59	95.8	84.9	71.8	70.8	68.2	65.4	70.8	124.2	179.1	69.3	78.9	73.0	1052.4
60	121.0	101.9	72.6	80.7	80.9	88.7	134.4	146.3	125.3	38.4	43.4	54.7	1088.4
61	69.8	86.5	61.2	66.4	70.8	62.4	57.0	117.4	99.7	28.2	46.0	87.5	852.9
62	93.6	89.7	64.3	56.8	117.4	86.5	189.4	278.4	205.6	121.1	95.1	86.5	1484.3
63	99.5	94.6	73.4	70.0	109.3	64.0	76.4	223.6	225.2	52.3	59.6	90.8	1238.7
64	76.9	96.6	61.2	64.3	64.0	63.2	118.1	241.3	404.3	142.7	88.8	86.9	1508.3
65	85.6	101.0	102.2	101.9	102.8	82.3	154.9	269.0	302.5	150.9	126.4	147.6	1727.0
66	125.6	114.0	113.3	97.5	91.9	94.6	118.2	142.5	70.8	39.6	62.8	68.2	1139.0
67	90.9	82.6	71.3	75.5	82.8	74.4	65.6	205.1	332.4	185.1	87.5	94.6	1447.8
68	106.2	119.2	101.0	103.0	108.4	91.0	84.3	175.4	320.1	101.1	155.7	123.0	1588.4
69	110.2	109.9	88.3	103.6	122.4	98.6	223.1	307.5	196.2	86.6	78.7	91.1	1616.1
70	133.7	119.0	105.9	84.6	94.7	80.2	104.1	304.6	445.2	165.6	87.0	125.9	1850.6
71	117.0	130.8	113.4	119.7	116.9	127.7	158.7	405.6	429.7	218.3	135.5	159.6	2232.9
72	163.2	172.4	148.7	129.3	147.7	158.1	163.3	360.8	380.2	172.5	123.5	152.1	2271.7
73	142.5	142.9	123.7	128.0	110.2	111.5	140.3	317.5	181.9	92.8	71.2	117.5	1680.1
74	123.3	142.2	125.5	111.4	109.5	125.3	175.6	356.3	463.2	175.1	144.2	110.4	2161.9
75	133.2	140.5	135.1	110.8	111.8	128.0	130.4	221.7	489.7	299.2	130.5	109.3	2140.3
76	107.7	117.8	132.6	124.9	120.3	117.8	136.3	370.7	508.3	164.2	136.5	122.1	2159.4
77	148.9	107.1	106.4	85.9	87.4	88.4	62.1	81.9	52.6	29.5	31.3	45.0	926.5
78	73.5	71.5	83.6	80.3	72.7	87.3	126.1	318.7	199.7	140.1	80.2	107.5	1441.2
79	100.9	100.2	81.2	87.8	89.0	100.1	111.0	277.1	176.1	70.6	74.6	60.2	1328.8
80	89.5	102.6	103.8	90.0	118.9	85.8	112.0	285.2	230.6	73.8	85.3	100.1	1477.6
81	90.9	104.4	108.3	98.5	109.9	82.9	141.9	260.9	257.2	51.0	25.5	26.0	1357.5
82	82.7	93.9	86.4	98.3	111.4	109.6	119.0	435.4	351.9	278.6	117.2	119.2	2003.8
83	142.6	143.5	154.3	155.8	126.3	150.0	154.4	376.7	434.6	249.0	134.2	122.4	2343.9
84	209.4	203.1	172.0	142.2	156.5	154.5	202.2	520.8	559.2	267.4	199.3	156.7	2943.2
85	173.2	175.3	165.6	153.8	140.2	158.7	223.7	376.1	156.2	62.2	79.7	123.4	1988.2
86	121.2	119.2	142.7	144.7	134.4	154.5	304.2	385.2	398.9	131.7	117.6	133.4	2287.8
87	147.7	137.7	146.4	127.6	112.2	116.4	107.0	148.8	56.3	60.7	47.1	37.4	1245.2
88	65.2	102.6	100.4	105.5	86.9	90.2	138.5	149.1	70.3	24.9	31.4	40.5	1005.6
89	41.8	99.5	107.7	107.3	95.7	108.6	122.0	340.7	196.9	60.2	66.2	57.4	1404.1
AVG	101.6	104.2	90.3	85.8	86.6	87.3	123.8	249.8	227.8	105.4	83.4	85.7	1431.7

US130

TABLE 3. DISCHARGE, SNAKE RIVER NEAR SHELLEY, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	208.7	352.4	284.8	250.8	246.4	224.4	1142.1	1065.1	794.2	371.2	248.4	354.2	5542.6
29	231.3	348.4	291.6	182.7	162.1	226.2	227.3	644.1	569.7	307.4	258.4	178.5	3627.8
30	172.5	229.5	280.9	156.0	217.0	202.7	163.6	384.3	409.0	307.4	295.5	269.6	3088.0
31	183.2	163.2	204.3	157.3	167.6	176.5	136.9	307.4	297.5	307.4	246.0	136.9	2484.1
32	78.2	72.6	105.5	106.1	95.8	133.4	134.5	307.4	297.5	508.9	544.9	336.5	2721.4
33	247.4	136.9	141.4	141.4	100.0	133.4	139.8	307.4	297.5	307.4	502.9	339.3	2794.9
34	226.4	136.9	141.4	119.3	100.0	133.4	136.9	289.0	297.5	92.2	61.5	41.3	1775.8
35	95.6	53.7	78.6	104.8	100.0	133.4	133.9	289.0	297.5	443.0	337.5	353.0	2419.9
36	106.8	125.0	119.3	119.3	103.5	133.4	142.2	503.7	747.4	307.4	258.1	314.7	2980.9
37	238.9	136.9	143.1	141.4	133.3	147.6	136.9	307.4	321.5	307.4	409.2	301.0	2724.6
38	211.5	136.9	141.4	141.4	133.3	133.4	243.2	692.0	642.9	339.8	266.6	214.4	3296.7
39	245.1	341.9	303.0	214.3	164.4	207.2	289.0	634.8	369.4	307.4	269.2	228.7	3574.3
40	166.9	136.9	141.4	141.4	138.1	162.4	182.4	307.4	297.5	363.4	320.6	373.7	2732.1
41	183.8	136.9	141.4	119.3	100.0	133.4	139.1	307.4	297.5	307.4	246.0	292.8	2405.0
42	261.9	136.9	141.4	124.8	100.0	133.4	164.9	307.4	312.4	321.8	322.6	293.9	2621.3
43	246.1	154.0	166.8	163.5	137.5	582.4	1193.6	925.7	688.6	521.4	351.5	217.5	5348.7
44	234.2	355.3	350.4	236.3	222.9	209.4	199.4	358.9	630.4	307.4	253.5	178.5	3536.6
45	140.4	187.1	220.5	198.9	193.3	184.9	332.7	794.3	555.3	316.2	302.5	433.2	3859.3
46	277.6	345.6	326.9	227.5	190.0	240.6	615.3	900.0	756.6	307.4	246.0	178.5	4612.0
47	281.8	355.8	321.0	188.5	216.0	182.3	836.3	549.3	609.0	307.4	350.0	211.0	4408.4
48	256.4	342.6	316.9	226.7	207.8	212.3	235.2	910.9	942.9	307.4	246.0	178.5	4383.7
49	195.2	268.8	250.9	182.5	164.2	482.3	583.6	741.4	641.8	307.4	246.0	178.5	4242.8
50	231.6	241.9	258.5	194.0	207.4	235.6	1234.5	744.8	697.0	646.9	335.1	346.7	5374.0
51	293.5	362.2	362.8	349.7	366.0	588.0	962.6	923.9	431.5	389.3	546.3	300.9	5876.6
52	265.6	362.8	357.4	388.4	273.1	261.8	1034.5	889.2	954.9	307.4	246.0	288.5	5629.6
53	208.7	325.7	296.4	287.1	230.2	210.0	187.4	737.4	731.1	307.4	289.5	178.5	3989.4
54	155.8	313.5	258.2	237.2	213.9	203.7	988.7	708.4	338.0	307.4	374.6	178.5	4278.1
55	191.8	323.5	239.3	210.0	186.6	196.6	207.8	488.1	538.4	307.4	246.0	178.5	3314.1
56	159.3	229.3	329.7	284.4	342.9	628.6	983.9	1041.4	908.0	379.3	300.9	386.4	5974.0
57	247.5	382.4	325.8	205.5	228.7	238.5	992.9	1011.5	666.4	347.7	297.1	341.8	5285.7
58	244.4	344.1	338.4	237.2	232.4	212.7	229.4	832.3	584.5	307.4	246.0	178.5	3987.4
59	129.4	152.7	206.7	219.7	214.7	211.1	373.2	617.9	375.1	307.4	246.0	207.3	3261.0
60	194.4	176.2	261.8	243.2	228.4	234.6	249.7	307.4	358.7	307.4	472.2	321.8	3356.0
61	219.6	136.9	141.4	141.4	133.3	145.4	136.9	307.4	297.5	307.4	246.0	140.0	2353.2
62	295.8	136.9	141.4	119.3	178.8	137.5	620.3	627.0	579.7	307.4	292.8	202.1	3639.0
63	214.3	207.1	260.4	181.4	256.7	179.5	267.9	431.7	980.2	307.4	246.0	178.5	3791.1
64	123.0	206.2	215.2	189.7	157.1	158.5	819.0	754.5	741.5	406.8	246.0	347.0	4364.4
65	172.2	331.8	319.9	272.5	320.7	460.1	989.4	893.3	773.1	620.0	415.3	411.5	5979.8
66	220.3	299.3	361.3	300.5	220.1	214.1	260.8	588.0	405.0	307.4	246.0	204.3	3627.2
67	161.8	140.6	151.4	147.4	147.1	184.9	697.7	651.2	792.6	586.9	246.0	313.9	4221.4
68	235.0	318.2	331.8	230.6	248.3	207.4	261.1	763.0	707.5	307.4	301.2	327.0	4238.6
69	170.2	301.4	336.2	383.0	422.7	484.4	341.3	848.6	600.5	307.4	246.0	178.5	4620.2
70	237.2	322.1	247.4	245.6	215.4	193.8	614.6	777.6	952.5	432.9	246.0	305.9	4791.0
71	230.2	339.2	362.8	441.9	448.3	620.5	912.4	1328.2	1238.3	954.2	471.1	439.3	7786.4
72	335.6	402.2	376.1	501.5	476.0	843.4	842.9	1172.2	1049.6	367.6	399.5	373.0	7139.5
73	331.2	354.4	377.3	439.9	238.0	221.0	275.3	713.2	683.3	307.4	246.0	289.4	4476.4
74	295.5	358.3	366.1	251.9	265.5	331.2	1289.8	1065.4	1374.1	691.6	385.9	261.1	6936.4
75	286.4	350.2	385.2	275.2	258.4	313.1	918.3	776.7	986.5	812.1	432.0	295.7	6089.9
76	292.3	341.0	406.8	435.4	387.9	632.2	893.9	1336.4	1005.9	307.4	411.5	332.2	6782.8
77	316.7	291.2	357.5	261.8	240.4	202.5	136.9	307.4	297.5	307.4	246.0	136.9	3102.2
78	127.2	125.0	131.7	119.3	100.0	133.4	306.7	1019.6	604.8	564.6	320.9	345.1	3898.1
79	193.2	313.4	310.9	255.8	235.9	245.8	492.2	598.3	615.6	307.4	247.4	178.5	3994.4
80	155.2	221.8	243.0	239.8	246.2	167.5	324.4	797.0	944.8	307.4	262.3	313.2	4222.7
81	186.7	316.3	299.4	235.7	215.2	192.7	182.5	376.4	774.0	307.4	257.9	178.5	3522.7
82	162.4	136.5	157.6	147.0	133.8	552.1	816.7	1311.6	887.9	864.3	426.9	368.6	6025.4
83	329.5	358.5	561.5	263.9	323.4	643.6	1070.5	1350.3	863.2	403.9	277.1	6773.6	
84	405.2	409.6	461.7	640.8	339.7	420.3	827.5	1076.7	1582.4	722.8	497.2	336.1	7790.0
85	290.8	380.8	359.6	538.0	263.0	284.6	549.8	1063.1	507.3	307.4	246.0	178.5	4969.0
86	202.4	331.1	289.3	310.2	268.7	953.4	1122.4	1197.3	1401.2	550.1	352.3	362.3	7340.7
87	309.3	326.5	371.6	399.9	257.7	250.6	220.7	354.3	297.5	307.4	246.0	226.3	3567.7
88	220.5	144.0	141.4	141.4	142.1	147.6	159.9	307.4	297.5	310.0	246.0	242.5	2500.4
89	234.5	140.5	124.5	119.3	100.0	133.4	454.9	589.0	409.1	307.4	246.0	300.8	3159.4
AVG	222.0	258.8	261.9	242.4	215.1	275.2	505.4	697.4	658.0	395.9	310.6	267.0	4309.8

US130

TABLE 4. DISCHARGE, SNAKE RIVER NEAR BLACKFOOT, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	175.0	324.5	259.1	215.4	231.7	192.1	1112.0	909.2	676.7	207.9	95.6	255.6	4655.0
29	217.8	351.0	280.0	174.7	156.4	208.0	200.2	537.2	379.4	108.8	86.1	70.2	2769.9
30	146.2	211.9	255.2	133.7	187.7	173.4	96.6	228.7	199.1	95.5	163.9	154.5	2046.5
31	149.5	142.2	183.6	137.0	147.3	151.6	105.6	163.5	88.9	108.2	95.3	40.9	1513.6
32	47.3	43.1	67.7	78.6	64.2	112.0	100.1	139.7	103.9	309.6	358.5	217.9	1642.5
33	192.9	140.5	126.5	118.5	77.5	113.6	108.8	181.9	89.1	103.8	318.3	213.2	1784.7
34	181.5	106.9	145.1	118.0	101.7	136.6	69.9	104.3	133.4	89.8	59.0	29.8	1276.0
35	41.1	33.3	56.1	73.2	66.3	104.7	68.8	128.1	82.8	226.9	180.4	233.2	1295.1
36	45.0	122.2	111.2	108.9	91.1	115.4	89.1	270.7	541.5	92.9	86.1	184.5	1858.6
37	175.9	136.4	129.7	123.6	118.3	134.3	107.2	155.4	147.4	98.5	235.1	178.2	1740.0
38	158.3	119.3	141.7	132.4	129.5	129.6	208.9	561.6	465.0	169.1	108.6	96.3	2420.2
39	211.4	354.2	312.6	206.1	155.2	195.3	247.2	456.9	191.8	99.1	86.1	123.9	2639.7
40	129.2	135.9	155.7	136.4	134.0	158.0	127.1	120.2	92.8	162.0	152.6	264.0	1767.9
41	150.3	144.6	150.8	117.1	102.3	123.3	108.7	150.8	105.0	99.6	97.0	173.4	1523.0
42	219.5	148.8	155.4	101.5	87.2	129.4	122.6	190.1	123.4	119.5	156.6	186.3	1740.4
43	205.0	162.8	171.6	149.4	125.1	569.6	1145.0	773.6	525.9	351.2	208.7	104.5	4492.3
44	210.5	371.4	359.2	189.6	199.9	204.4	171.0	212.8	441.9	108.2	86.1	94.1	2649.1
45	76.6	189.4	220.4	192.8	192.1	179.8	305.8	625.2	378.6	137.4	161.5	324.6	2984.2
46	248.5	369.3	344.3	224.8	180.3	222.7	576.2	756.1	605.9	127.6	110.6	84.9	3851.4
47	253.4	370.5	329.6	174.4	212.2	186.2	806.1	349.6	440.6	132.5	214.2	115.6	3584.7
48	225.6	359.8	320.8	215.5	197.4	200.9	209.4	779.8	782.9	135.1	116.6	80.4	3624.2
49	182.9	266.6	234.6	158.8	151.7	481.5	545.2	607.5	495.3	125.5	121.0	73.2	3443.8
50	205.1	259.4	260.4	186.7	212.9	253.8	1219.6	606.3	540.3	493.3	212.3	273.7	4723.9
51	258.3	393.3	382.8	361.9	379.1	603.0	933.6	791.2	307.0	214.0	437.5	203.6	5265.4
52	238.7	386.8	355.7	377.7	273.3	265.2	994.8	782.6	814.7	140.2	120.7	195.7	4946.1
53	145.3	341.2	304.5	295.0	239.1	213.7	138.9	608.0	568.9	128.7	149.2	77.6	3210.0
54	113.6	323.2	264.7	238.9	219.4	204.8	910.6	512.2	159.2	137.4	236.9	77.6	3398.6
55	170.8	340.7	247.5	197.6	169.8	180.3	195.9	336.6	370.9	127.0	99.2	84.6	2521.0
56	130.8	240.4	336.4	290.7	335.3	627.7	965.9	876.5	733.6	190.5	158.0	286.6	5172.3
57	226.2	400.1	329.0	207.6	225.0	230.4	969.0	886.6	518.0	140.1	143.8	240.5	4516.2
58	206.5	357.0	345.1	238.5	234.2	209.6	213.6	667.5	425.9	118.2	103.3	89.0	3208.5
59	72.8	173.6	211.3	208.6	212.3	212.3	341.2	459.9	175.2	111.0	91.1	113.7	2383.1
60	176.4	190.9	263.4	231.0	215.2	231.5	229.1	145.5	162.5	99.6	307.7	211.3	2464.2
61	156.3	145.4	138.4	134.4	128.0	140.2	111.0	150.6	108.6	103.8	79.1	59.5	1455.2
62	267.5	140.9	135.5	119.7	191.5	144.5	623.5	486.0	417.3	118.5	151.9	94.7	2891.7
63	162.8	284.3	249.2	170.4	249.7	176.5	252.4	293.7	880.4	100.4	87.0	95.1	3001.9
64	31.7	216.8	211.0	179.1	153.9	154.5	804.8	683.8	687.8	237.6	111.1	247.0	3719.1
65	111.5	339.6	310.0	265.0	322.0	492.5	1005.8	822.6	631.8	469.0	307.3	349.8	5427.0
66	183.8	310.7	359.9	297.3	220.2	218.3	238.0	406.4	217.0	110.0	86.6	125.2	2773.4
67	106.8	139.8	145.2	150.3	156.3	194.8	694.6	518.7	641.0	412.0	109.8	207.8	3476.9
68	191.7	344.5	326.5	222.4	247.8	202.6	227.7	627.4	579.0	125.7	210.5	264.5	3570.4
69	129.6	310.8	326.2	377.0	429.2	485.4	366.6	690.7	475.4	137.3	119.1	81.7	3929.0
70	191.5	322.3	250.2	247.3	215.1	191.6	586.7	680.0	809.6	295.7	112.8	230.8	4133.7
71	173.0	341.4	361.9	443.7	436.6	617.5	956.6	1352.5	1135.5	822.0	356.1	393.5	7390.3
72	339.5	429.7	392.4	512.0	505.1	871.2	859.8	1076.4	974.9	239.2	312.3	307.3	6819.9
73	337.4	375.7	393.1	447.3	244.6	244.7	297.0	600.7	536.1	154.0	118.3	226.1	3974.9
74	273.2	363.6	353.2	231.6	253.4	304.6	1248.9	902.1	1157.8	548.4	288.2	176.9	6102.2
75	259.4	356.3	372.8	261.8	247.3	307.0	890.2	725.6	863.7	636.8	327.8	212.8	5461.5
76	279.0	347.3	374.8	390.0	372.1	597.9	889.6	1301.6	864.5	141.8	287.5	273.2	6119.1
77	322.3	294.2	332.8	235.5	240.0	204.0	76.2	142.1	122.3	116.2	115.2	46.1	2246.8
78	91.4	103.6	112.3	104.8	86.4	113.2	273.3	893.4	421.8	381.5	186.0	259.5	3027.3
79	150.3	296.6	284.6	225.4	211.0	207.7	439.5	390.6	414.9	106.6	106.5	67.4	2901.1
80	123.0	207.9	220.7	215.0	222.7	146.1	272.2	671.3	805.2	106.6	114.7	208.9	3314.3
81	137.9	297.1	278.4	221.7	208.5	176.7	127.6	207.0	611.4	124.4	86.1	59.6	2536.6
82	132.1	141.9	138.0	119.4	131.0	466.4	728.5	1154.6	733.7	652.6	304.6	295.1	4997.7
83	329.8	343.2	367.6	552.8	282.6	323.3	605.5	965.4	1216.8	703.3	313.0	195.0	6198.2
84	392.6	481.2	440.1	621.2	342.5	406.2	796.2	1101.7	1534.9	604.7	434.9	247.4	7403.6
85	288.7	411.8	379.2	546.8	263.7	285.5	556.3	959.5	359.7	128.8	123.8	121.9	4425.7
86	190.9	326.2	252.3	255.9	255.8	927.2	1049.7	1046.5	1231.2	406.0	223.8	279.4	6444.8
87	320.1	354.6	381.6	420.1	273.9	267.8	135.8	161.3	135.2	182.8	124.0	129.9	2887.1
88	169.5	134.4	120.9	125.7	131.3	140.4	105.5	130.9	108.4	106.8	89.4	137.7	1500.8
89	188.4	137.1	108.9	92.1	82.2	132.8	414.2	384.2	233.2	111.9	102.8	204.1	2192.0
AVG	187.4	263.1	256.9	230.6	208.5	267.7	473.8	558.1	496.4	217.6	173.4	173.4	3507.0

US130

TABLE 5. DISCHARGE, SNAKE RIVER AT NEELEY, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	239.9	190.4	153.7	365.0	304.1	253.0	1108.6	1034.3	824.5	743.8	682.9	479.9	6380.0
29	270.0	190.4	424.5	341.5	171.5	174.3	343.3	720.3	649.5	747.2	662.5	448.7	5143.6
30	177.0	86.6	153.7	194.1	221.2	123.3	284.7	491.2	643.1	741.7	639.8	455.3	4211.6
31	181.0	29.8	124.0	36.9	136.0	102.9	252.0	602.6	604.0	710.6	575.8	365.3	3720.8
32	145.2	41.1	18.4	12.8	23.1	38.8	150.3	521.5	579.5	746.9	672.5	513.8	3463.9
33	212.1	29.8	27.5	36.9	33.9	54.8	225.9	555.6	656.5	734.8	669.8	502.1	3739.7
34	207.1	29.8	24.6	36.9	46.2	62.5	244.3	526.9	561.2	698.8	578.6	286.7	3303.6
35	136.8	24.1	20.2	12.3	22.2	46.1	106.7	511.9	619.1	709.4	552.6	388.1	3149.4
36	122.5	39.3	18.4	24.6	23.0	36.9	123.2	621.2	639.4	737.1	658.5	465.4	3509.6
37	190.5	29.8	24.6	36.9	63.3	83.5	230.5	567.6	603.6	745.5	663.8	455.5	3695.0
38	174.5	29.8	29.7	36.9	88.5	146.2	262.6	733.7	631.6	733.4	690.8	506.9	4064.5
39	243.4	190.4	232.1	388.0	171.9	150.6	374.7	598.8	635.8	760.9	670.4	466.6	4883.5
40	159.0	29.8	46.2	36.9	113.3	88.4	234.3	583.3	661.6	736.7	620.2	392.7	3702.3
41	146.6	29.8	71.2	36.9	65.0	64.3	236.9	590.6	608.0	728.2	615.4	381.7	3574.4
42	173.6	29.8	76.3	36.9	38.6	69.5	260.9	510.5	632.6	741.3	672.7	470.7	3713.2
43	224.6	29.8	126.1	94.9	188.2	622.2	1135.6	937.9	680.8	757.0	705.1	524.4	6026.6
44	281.4	229.0	552.7	386.8	225.9	159.9	311.1	485.1	539.6	740.7	663.3	489.3	5064.6
45	227.2	40.3	153.7	216.2	227.4	124.4	427.5	829.9	618.7	747.1	679.5	500.5	4792.5
46	261.8	234.2	544.9	422.1	199.1	276.0	626.6	956.5	774.6	749.6	674.7	411.9	6132.1
47	243.8	190.4	475.3	365.7	231.5	121.2	922.8	586.0	593.8	757.2	685.2	456.8	5629.7
48	278.8	190.4	348.9	416.3	225.7	224.9	275.0	961.6	943.2	752.9	676.7	454.7	5748.9
49	236.4	190.4	161.3	346.0	170.8	454.4	656.7	757.6	639.4	764.5	677.4	460.0	5515.0
50	253.1	190.4	153.7	391.0	284.6	305.8	1242.2	804.4	722.4	758.6	685.4	523.3	6314.9
51	353.2	582.1	576.1	569.1	461.7	625.1	959.8	950.0	636.2	766.1	650.6	548.7	7678.6
52	270.9	311.6	558.7	600.9	335.8	312.2	1027.1	970.4	968.0	757.3	697.4	492.0	7302.4
53	276.7	190.4	325.1	495.3	252.4	146.3	258.4	772.7	720.4	774.2	692.7	500.7	5405.3
54	234.3	190.4	153.7	353.6	229.2	155.3	1039.7	658.5	581.1	734.0	668.2	494.0	5492.0
55	210.7	183.1	153.7	227.1	181.8	125.8	329.2	513.9	654.3	740.2	665.4	494.4	4479.7
56	198.9	51.3	153.7	433.0	391.5	653.6	951.5	1006.0	827.3	759.5	668.2	514.1	6608.7
57	247.6	244.6	510.6	387.6	256.7	168.8	1074.5	1065.8	673.2	781.9	685.3	485.7	6582.4
58	244.2	190.4	445.4	422.5	256.4	150.6	339.5	830.2	641.4	755.7	662.2	448.0	5386.6
59	221.5	31.9	153.7	217.6	227.7	142.9	478.9	633.9	630.5	742.3	658.5	429.4	4568.8
60	134.2	29.8	153.7	235.6	243.7	170.6	366.4	586.8	645.4	738.7	663.5	485.2	4453.6
61	187.1	29.8	50.4	36.9	83.3	70.3	218.2	554.6	606.1	711.6	587.0	357.4	3492.7
62	162.6	29.8	24.6	36.9	137.3	129.5	756.2	666.5	627.4	776.4	682.1	506.9	4536.1
63	263.1	190.4	153.7	218.1	300.7	97.7	396.1	506.2	1006.5	772.4	657.0	461.4	5023.3
64	196.7	70.6	153.7	166.6	166.9	167.9	878.3	876.2	878.3	792.2	717.7	503.9	5568.9
65	259.2	190.4	347.9	499.2	358.6	453.6	1057.3	1007.3	764.8	738.3	645.1	612.2	6933.9
66	381.6	486.6	537.9	484.4	245.5	166.0	344.4	583.6	631.0	736.5	647.4	460.5	5705.5
67	169.2	29.8	65.8	36.9	135.1	122.9	800.4	687.5	818.8	783.3	727.7	559.5	4936.8
68	266.4	190.4	458.0	401.1	275.3	147.1	316.8	773.9	749.5	774.9	619.4	494.7	5467.7
69	260.5	190.4	454.1	598.9	462.5	440.7	482.9	900.8	663.4	756.7	685.8	449.2	6346.0
70	251.9	190.4	211.0	444.7	224.1	209.1	628.1	827.2	974.3	738.1	693.3	462.4	5854.7
71	275.2	210.1	554.7	851.6	440.7	625.1	950.4	1557.4	1321.8	988.2	807.9	670.3	9253.2
72	541.9	638.4	590.1	802.0	542.0	872.5	826.6	1265.3	1133.6	718.3	663.1	464.6	9058.4
73	385.8	552.8	552.1	627.5	249.8	199.9	427.3	752.9	681.9	712.7	652.3	420.1	6215.2
74	221.2	344.0	557.5	536.7	269.2	352.0	1219.4	1116.2	1312.5	726.0	657.8	508.7	7821.3
75	394.7	556.9	568.0	475.4	317.5	346.4	905.0	928.6	1044.4	769.4	764.3	539.5	7610.2
76	467.6	568.2	604.4	714.2	424.0	633.5	901.2	1525.1	1062.7	742.8	662.6	486.5	8793.0
77	249.0	490.0	548.5	448.9	275.0	157.9	283.3	507.4	572.5	702.8	573.8	409.0	5218.1
78	63.6	23.8	24.6	36.9	33.3	46.1	320.8	1056.2	611.4	762.6	718.3	490.7	4188.4
79	265.0	190.4	415.6	428.3	253.5	187.3	597.5	624.6	702.8	766.4	651.4	477.3	5560.1
80	205.1	29.8	153.7	100.3	278.5	102.1	405.1	864.4	988.4	728.5	676.7	459.0	4991.6
81	327.7	190.4	257.3	403.3	228.7	121.6	245.0	548.1	588.5	719.6	670.8	503.7	4804.6
82	178.8	29.8	153.7	121.2	195.0	510.5	735.6	1372.8	943.2	816.9	747.2	574.6	6379.4
83	534.8	554.5	580.2	884.7	325.9	392.7	616.4	1199.1	1464.8	838.3	750.5	529.1	8671.1
84	500.5	646.3	611.3	996.4	351.3	476.9	761.4	1228.3	1728.2	791.4	890.9	535.6	9518.4
85	502.6	646.6	614.3	772.3	301.4	307.7	749.1	1155.9	721.3	770.1	676.4	426.1	7643.9
86	258.5	190.4	192.1	660.2	336.2	1016.8	1075.0	1265.3	1433.8	727.0	701.5	494.9	8351.7
87	470.6	583.8	610.3	631.7	307.7	230.6	365.5	618.3	614.1	668.9	643.3	484.8	6229.6
88	153.4	29.8	96.6	36.9	121.3	82.9	234.2	585.2	632.0	725.0	611.5	405.1	3713.9
89	173.9	23.8	18.4	36.9	22.2	39.7	435.0	633.1	701.4	749.8	640.8	484.8	3959.9
AVG	254.0	200.0	279.1	333.9	222.2	244.2	561.2	801.1	774.5	751.6	671.1	476.2	5569.1

US130

TABLE 6. DISCHARGE, SNAKE RIVER NEAR MILNER, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	80.2	221.1	189.0	386.5	309.9	218.7	944.5	445.2	234.5	61.5	61.5	59.5	3212.0
29	123.0	233.5	457.0	396.0	170.9	164.3	252.3	141.1	17.9	61.5	40.6	59.5	2117.6
30	61.5	128.1	182.4	221.1	250.1	81.6	0.6	1.8	17.9	40.6	40.6	59.5	1085.7
31	61.5	35.3	148.1	50.7	138.1	50.4	0.6	1.8	17.9	40.6	14.8	6.0	565.7
32	16.0	15.5	47.0	30.7	28.8	9.2	0.6	1.8	0.3	40.6	40.6	59.5	290.6
33	61.5	39.0	61.5	51.4	37.2	24.9	16.3	1.8	17.9	40.6	40.6	59.5	452.2
34	61.5	34.7	53.9	55.0	55.5	9.2	0.6	1.8	17.9	40.6	14.8	6.0	351.3
35	16.0	11.9	24.6	30.9	33.6	9.2	0.6	1.8	0.3	18.4	14.8	6.0	168.0
36	16.0	15.5	25.7	51.1	52.7	26.4	0.6	1.8	17.9	40.6	40.6	59.5	348.3
37	61.5	51.4	62.8	54.8	74.0	47.1	99.4	1.8	17.9	40.6	40.6	59.5	611.4
38	61.5	44.2	65.3	57.0	95.6	111.9	98.7	190.6	17.9	61.5	61.5	59.5	925.1
39	123.0	230.3	268.7	403.7	179.7	130.7	93.7	12.1	17.9	61.5	40.6	59.5	1621.3
40	61.5	42.5	72.6	58.5	129.6	55.4	44.5	1.8	17.9	40.6	14.8	45.2	584.7
41	61.5	50.8	108.2	59.5	80.9	27.5	22.5	1.8	17.9	40.6	14.8	6.0	491.8
42	61.5	66.5	121.1	46.9	44.5	38.5	52.7	1.8	17.9	40.6	40.6	59.5	592.0
43	61.5	48.2	176.1	123.5	199.1	594.8	938.5	368.1	105.8	61.5	61.5	107.1	2845.5
44	123.0	264.7	579.6	408.1	231.2	111.0	169.3	1.8	17.9	61.5	40.6	59.5	2068.1
45	61.5	67.2	188.7	233.7	238.2	87.1	301.9	312.5	17.9	61.5	61.5	107.1	1738.6
46	123.0	266.3	582.9	439.2	207.9	245.6	440.4	399.9	116.0	61.5	61.5	59.5	3003.6
47	123.0	231.2	504.5	389.4	250.4	89.1	671.6	1.8	17.9	61.5	61.5	59.5	2461.5
48	123.0	229.3	380.9	453.9	249.0	186.7	89.4	379.5	315.0	61.5	61.5	59.5	2589.2
49	123.0	216.7	189.7	373.0	191.8	445.9	438.0	223.5	26.9	61.5	61.5	59.5	2410.9
50	123.0	230.1	197.2	427.3	302.6	277.2	1058.8	273.0	125.2	61.5	61.5	107.1	3244.4
51	214.4	620.3	618.7	572.9	499.0	596.2	725.0	455.2	17.9	61.5	61.5	107.1	4549.8
52	123.0	335.3	589.5	611.2	336.6	263.7	898.5	408.0	332.8	61.5	61.5	59.5	4081.0
53	123.0	213.6	353.6	520.9	259.3	114.2	46.6	276.6	171.4	61.5	61.5	59.5	2261.6
54	67.4	218.7	189.8	379.0	235.2	112.7	778.8	55.1	17.9	61.5	40.6	59.5	2216.4
55	61.5	222.2	181.3	246.7	191.4	89.7	210.0	1.8	17.9	61.5	40.6	59.5	1384.1
56	61.5	77.1	188.6	453.5	407.9	626.2	704.2	444.8	236.8	61.5	61.5	107.1	3430.7
57	123.0	267.3	547.6	413.3	282.4	145.7	943.1	570.5	48.0	61.5	61.5	59.5	3523.2
58	123.0	222.7	473.8	441.6	278.5	134.8	161.7	244.9	17.9	61.5	40.6	59.5	2260.3
59	61.5	62.1	176.6	242.1	231.3	94.8	212.8	124.9	17.9	61.5	40.6	59.5	1385.4
60	61.5	26.8	182.0	251.9	251.8	124.3	155.7	1.8	17.9	40.6	40.6	59.5	1214.3
61	61.5	56.6	79.8	53.4	98.7	35.6	0.6	1.8	17.9	40.6	14.8	6.0	467.1
62	61.5	64.5	54.6	48.7	150.2	93.1	523.9	143.7	17.9	61.5	61.5	59.5	1340.4
63	123.0	226.4	199.4	245.1	316.7	48.8	236.6	1.8	431.4	61.5	40.6	59.5	1990.8
64	61.5	104.7	205.2	190.4	180.3	151.4	740.0	335.1	286.9	61.5	61.5	59.5	2437.9
65	123.0	250.2	415.9	529.5	350.0	412.6	859.0	486.1	156.7	61.5	72.4	198.2	3915.1
66	201.6	463.8	592.2	516.2	253.6	138.1	74.8	1.8	17.9	61.5	40.6	59.5	2421.5
67	61.5	72.0	101.1	62.7	141.7	65.2	587.5	149.6	231.3	61.5	61.5	107.1	1702.6
68	123.0	246.9	505.4	436.6	296.3	94.7	73.7	203.5	95.6	61.5	61.5	107.1	2305.8
69	123.0	226.9	494.9	628.3	487.4	406.7	242.0	317.4	45.2	61.5	52.5	59.5	3145.3
70	123.0	220.1	258.0	493.7	252.4	167.6	449.1	357.0	363.8	61.5	61.5	107.1	2914.8
71	123.0	240.8	611.7	917.6	479.4	593.4	780.0	1077.1	726.4	280.6	159.0	253.7	6242.7
72	397.9	694.0	641.7	858.7	577.4	883.4	702.8	766.4	573.5	61.5	61.5	107.1	6326.0
73	304.8	615.9	637.5	713.7	309.4	211.3	308.5	236.2	72.3	61.5	61.5	74.2	3606.7
74	123.0	388.2	599.9	571.1	292.5	363.5	1150.4	594.2	671.8	61.5	71.2	107.1	4994.3
75	235.4	576.3	612.8	496.4	321.5	325.4	828.4	537.5	496.8	103.6	161.5	107.1	4802.8
76	316.8	581.5	646.3	739.2	440.7	619.2	849.4	984.5	440.4	61.5	61.5	107.1	5848.2
77	123.0	498.6	593.5	466.0	277.2	75.4	0.6	1.8	17.9	40.6	14.8	6.0	2115.3
78	16.0	27.7	54.0	61.7	41.8	9.2	183.9	550.0	17.9	61.5	61.5	107.1	1192.2
79	123.0	233.7	442.9	444.8	269.5	163.5	412.6	1.8	17.9	61.5	40.6	59.5	2271.4
80	61.5	59.5	183.7	133.3	285.1	64.3	122.4	361.5	453.0	61.5	61.5	59.5	1906.7
81	123.0	222.9	298.0	427.7	229.7	75.2	51.1	1.8	27.9	61.5	40.6	59.5	1618.9
82	61.5	95.9	194.2	146.8	217.4	484.6	708.1	913.0	337.2	137.1	104.1	167.9	3567.7
83	425.3	612.6	631.7	951.0	369.4	373.5	498.4	753.9	846.8	197.1	201.9	107.1	5968.6
84	416.5	739.0	681.9	1081.3	397.6	474.5	735.8	906.5	1269.4	85.1	278.7	107.1	7173.4
85	342.8	665.5	629.1	757.7	305.9	271.1	594.6	527.5	17.9	61.5	40.6	59.5	4273.7
86	123.0	225.8	218.1	674.1	353.1	998.6	891.0	800.4	877.0	61.5	61.5	107.1	5391.2
87	292.2	529.7	615.8	652.1	316.8	168.3	0.6	1.8	17.9	40.6	40.6	59.5	2735.8
88	61.5	73.5	132.1	59.0	132.1	46.6	0.6	1.8	17.9	40.6	14.8	6.0	586.4
89	61.5	66.7	47.2	55.8	32.9	9.2	252.5	1.8	17.9	40.6	40.6	59.5	686.0
AVG	122.6	227.7	315.6	360.4	237.1	212.4	377.9	264.0	172.1	63.4	58.2	72.9	2484.4

US130

TABLE 7. BIG WOOD RIVER NEAR GOODING
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	4.3	8.9	7.4	5.4	6.2	22.2	19.7	3.0	0.2	1.1	3.6	6.9	88.9
29	3.8	5.8	5.5	4.2	5.1	17.9	21.7	9.1	3.0	3.7	6.9	2.1	88.8
30	2.9	5.3	7.1	4.0	5.3	17.9	20.4	7.1	3.5	4.5	5.6	2.7	86.3
31	3.9	5.9	5.3	4.2	5.1	6.9	5.4	6.2	4.1	2.4	7.5	7.7	64.6
32	2.6	4.7	5.1	4.0	5.1	15.5	13.7	9.8	4.1	1.1	1.3	4.2	71.2
33	4.9	6.2	5.5	4.3	5.3	18.1	8.6	12.0	3.4	1.9	1.3	7.3	78.8
34	2.7	5.5	5.8	4.6	5.9	7.4	9.3	0.3	3.1	0.8	2.4	6.6	54.4
35	2.6	4.8	5.0	4.0	5.1	17.9	7.6	2.9	6.3	2.6	2.9	8.9	70.6
36	0.7	5.5	5.8	4.5	5.4	18.0	13.6	4.5	1.2	2.9	6.8	11.4	80.3
37	5.0	3.3	5.4	4.2	5.3	17.9	29.7	6.8	0.1	1.9	3.0	13.2	95.8
38	2.2	2.5	9.7	4.9	5.6	16.4	56.8	114.9	72.7	8.5	7.7	3.8	305.7
39	7.0	8.7	7.7	6.7	5.7	36.2	40.9	5.9	5.3	5.4	7.3	3.4	140.2
40	2.4	3.1	5.5	4.3	6.4	6.5	21.3	6.0	4.9	3.0	3.1	6.2	72.7
41	1.8	2.6	6.2	4.8	5.3	7.3	7.7	4.1	2.2	1.7	1.8	9.1	54.6
42	4.6	5.3	6.1	3.6	5.7	17.9	17.0	10.9	18.9	0.4	1.5	5.3	97.2
43	4.3	6.1	7.2	20.2	14.6	20.2	236.8	82.3	73.8	14.2	1.5	7.7	488.9
44	10.3	9.2	9.0	7.1	7.1	22.2	40.7	19.9	9.1	1.1	2.9	6.1	144.7
45	5.6	7.8	5.4	4.5	16.5	12.4	14.6	9.5	9.3	0.0	5.7	10.7	102.0
46	6.1	9.5	8.8	8.8	8.3	18.1	96.9	32.8	6.4	0.0	5.4	6.7	207.8
47	9.7	8.1	6.0	4.8	10.4	24.2	33.6	15.7	6.8	0.0	4.4	7.6	131.3
48	4.9	4.9	7.1	3.6	6.7	14.0	13.0	8.4	9.5	5.1	3.3	12.7	93.2
49	5.0	8.2	5.9	4.8	5.6	9.8	15.5	6.4	6.8	2.1	3.9	9.5	83.5
50	4.3	4.0	4.2	3.4	8.4	14.5	36.0	31.0	5.6	3.7	5.8	7.9	128.8
51	7.6	8.9	9.2	6.0	21.1	9.7	118.7	72.2	10.9	3.3	4.1	6.8	278.5
52	4.9	11.0	6.8	7.2	6.7	9.7	278.6	180.5	63.5	5.8	1.7	6.1	582.5
53	8.0	5.4	10.6	16.9	8.6	14.0	70.7	7.2	29.0	1.0	2.7	6.4	180.5
54	4.9	5.5	6.8	9.1	7.4	10.1	28.0	8.1	9.6	3.4	1.7	5.3	99.9
55	4.9	4.6	5.8	2.4	2.7	9.5	14.6	11.2	2.5	0.1	1.6	5.7	65.6
56	4.9	6.3	13.1	11.8	4.5	17.7	80.5	72.1	50.5	0.3	5.1	9.3	276.1
57	5.3	13.9	10.2	4.8	24.9	22.7	78.2	69.9	38.7	2.1	3.2	14.0	287.9
58	4.1	6.3	9.3	9.2	10.5	8.0	57.2	138.9	55.1	5.3	4.4	11.6	319.9
59	4.2	8.5	9.1	8.3	10.6	11.1	12.9	11.2	4.1	3.7	3.3	15.1	102.1
60	5.1	7.2	5.3	3.3	7.6	19.2	14.9	3.8	5.8	5.2	4.8	5.5	87.7
61	1.5	3.4	2.4	1.2	3.5	5.5	11.2	2.7	5.0	0.5	1.1	10.6	48.6
62	1.8	2.9	1.6	0.0	37.9	12.9	30.2	12.2	21.8	0.0	0.9	2.4	124.6
63	5.1	5.7	5.7	3.7	43.6	6.4	25.5	25.8	53.1	3.7	5.3	8.5	192.1
64	5.3	7.2	5.4	7.4	5.4	10.4	32.6	19.0	29.8	0.3	3.0	6.5	132.3
65	9.8	7.6	47.3	23.1	20.5	47.0	171.9	118.2	134.2	50.8	13.7	25.3	669.4
66	35.7	6.7	29.8	17.0	4.7	18.6	61.9	22.2	26.2	3.1	8.6	11.6	246.1
67	6.0	3.5	4.1	8.3	5.1	7.7	20.3	19.2	128.5	17.2	6.4	14.9	241.2
68	8.6	7.9	7.7	7.8	8.9	10.2	20.7	8.9	8.6	1.0	9.8	8.0	108.1
69	17.1	15.3	5.7	6.6	5.1	8.0	248.7	152.6	74.9	5.5	8.6	16.3	564.4
70	23.8	19.4	6.7	6.7	5.7	9.6	75.3	40.2	41.1	6.6	12.6	33.8	281.5
71	22.6	15.4	9.7	29.6	9.2	25.7	213.6	145.9	123.4	19.9	8.8	22.4	646.2
72	29.1	18.3	7.4	25.0	12.3	100.0	71.5	21.7	59.2	3.4	9.7	15.8	373.4
73	26.7	15.4	7.4	7.2	6.8	10.7	35.8	11.1	11.7	6.2	16.4	10.2	165.6
74	8.7	12.3	4.2	4.3	4.1	16.9	103.7	87.9	100.7	3.6	12.6	14.6	373.6
75	20.6	20.6	6.5	7.1	6.2	9.6	21.1	120.7	78.3	41.2	9.2	13.9	355.0
76	23.3	14.2	9.6	7.9	6.4	9.4	98.8	44.7	11.6	2.3	11.8	24.6	264.6
77	21.0	9.9	6.6	5.0	5.3	7.8	13.3	6.8	8.5	7.7	1.4	11.9	105.2
78	0.0	1.1	4.1	3.3	3.0	5.8	13.6	28.7	34.3	3.6	7.1	14.4	119.0
79	13.6	8.7	5.8	5.8	5.4	7.6	17.6	2.7	7.5	5.0	7.0	12.8	99.5
80	11.2	4.0	2.6	11.9	15.1	7.2	19.4	42.0	36.6	1.2	0.0	12.8	164.0
81	21.2	12.9	8.5	8.4	10.8	7.5	18.2	17.1	22.7	4.0	5.5	17.1	153.9
82	16.2	3.8	5.3	2.2	50.3	12.6	103.9	161.9	93.4	43.8	18.6	28.1	540.1
83	36.2	22.5	9.7	12.4	13.3	72.9	177.4	220.8	189.8	47.9	19.5	18.9	841.3
84	27.3	25.5	27.6	15.3	16.7	19.6	156.6	108.4	81.2	17.7	13.4	18.4	527.7
85	23.9	20.0	7.6	17.6	6.5	1.7	113.8	35.8	15.9	6.7	6.0	27.5	283.0
86	19.4	6.1	5.1	5.3	13.1	125.7	112.5	90.8	82.9	14.8	14.9	26.5	517.1
87	20.0	25.8	10.2	4.0	5.7	7.7	7.7	12.0	10.4	10.3	5.7	8.4	127.9
88	4.0	1.7	2.3	1.7	5.3	4.1	10.8	6.7	6.7	2.9	2.3	9.6	58.1
89	4.1	1.3	2.9	1.9	2.1	15.9	17.2	15.3	6.2	3.0	8.8	12.2	90.9
AVG	10.0	8.6	7.9	7.4	9.7	18.0	57.4	41.7	32.8	7.0	6.1	11.5	218.2

BWR30

TABLE 8. DISCHARGE, SNAKE RIVER NR KING HILL, IDAHO
COMPUTED FLOW, 1989 CONDITIONS (1000 AC FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	559.4	669.0	656.0	840.1	723.7	659.6	1395.9	846.4	672.5	488.2	515.2	557.0	8583.1
29	629.3	719.6	882.3	839.4	572.4	631.9	690.9	578.9	466.8	488.5	506.4	577.5	7583.7
30	577.4	575.0	623.4	631.5	647.6	502.1	425.3	485.4	428.7	460.8	540.5	588.4	6486.0
31	579.3	487.2	583.8	486.2	529.9	475.9	411.7	440.9	412.7	428.8	443.8	479.1	5759.2
32	500.3	461.9	482.0	455.8	435.1	460.3	422.4	455.4	405.1	448.3	479.6	562.8	5569.1
33	584.9	515.9	508.9	503.5	441.0	478.6	452.7	459.0	419.2	442.3	477.2	562.5	5845.8
34	583.9	508.7	530.7	521.9	468.0	424.8	395.8	406.5	410.0	431.7	421.9	451.3	5555.3
35	484.1	445.4	449.7	449.6	395.5	420.0	409.3	410.5	396.8	412.5	436.8	464.3	5174.5
36	498.1	466.2	457.1	505.0	489.0	466.7	454.8	414.3	473.2	448.5	503.4	576.4	5752.5
37	572.9	507.3	508.1	479.2	456.3	485.1	555.4	431.8	429.4	448.3	489.6	570.8	5934.3
38	576.8	501.3	528.9	504.5	495.7	570.0	567.4	751.1	520.2	527.7	534.4	565.7	6643.7
39	668.6	707.1	739.0	854.1	585.8	593.4	549.2	447.3	441.9	499.2	503.1	568.4	7157.2
40	584.8	505.0	530.6	505.3	551.0	478.5	466.3	436.3	414.3	457.3	469.9	580.2	5979.7
41	592.2	523.8	558.8	494.5	479.4	443.0	434.4	433.1	464.2	471.0	471.2	534.4	5900.0
42	555.6	516.6	563.2	487.8	434.1	476.4	460.3	426.2	446.7	437.8	466.9	534.0	5805.7
43	545.8	509.1	631.0	599.6	614.2	1063.7	1589.3	875.3	535.0	495.2	504.6	605.7	8568.6
44	636.8	729.5	1023.7	838.3	630.2	523.7	614.4	435.5	441.8	461.3	480.6	545.1	7360.9
45	571.1	526.8	627.3	665.3	645.5	513.7	718.1	745.0	421.8	476.0	510.0	612.4	7033.0
46	626.1	732.2	1041.2	888.6	607.5	700.4	960.1	860.9	542.6	478.8	512.3	563.7	8514.4
47	648.9	690.5	955.2	822.7	660.0	540.8	1113.1	436.8	445.3	470.8	520.3	570.8	7875.0
48	638.6	700.6	840.8	889.6	658.6	624.0	494.1	809.4	718.3	478.5	497.8	560.9	7911.1
49	628.5	674.2	631.1	820.7	586.1	876.3	858.1	648.3	445.1	466.8	514.8	583.2	7733.3
50	639.2	681.6	622.4	847.4	697.0	711.2	1511.3	738.7	518.2	478.2	500.4	602.6	8548.2
51	714.4	1071.4	1068.9	1009.2	952.6	1054.5	1291.8	976.5	462.0	478.1	535.0	614.0	10228.4
52	656.8	802.4	1041.5	1044.1	758.1	719.3	1654.0	1033.6	813.8	507.9	519.1	569.3	10119.8
53	662.0	687.6	815.1	1010.8	661.1	555.3	544.6	755.6	662.3	474.2	514.4	566.6	7909.5
54	597.3	695.7	655.3	830.6	643.2	537.6	1205.4	452.5	465.4	469.1	478.7	557.1	7587.8
55	575.1	684.3	618.2	684.6	580.3	493.6	626.0	456.5	420.4	483.4	482.7	547.1	6652.3
56	565.3	544.2	658.6	919.1	817.1	1064.9	1183.1	928.2	737.6	474.8	524.2	615.1	9032.2
57	640.0	737.1	999.4	834.3	706.8	570.3	1433.3	1069.9	519.0	475.0	518.4	579.9	9083.5
58	647.4	690.6	925.1	888.6	694.8	560.2	626.3	812.2	496.9	485.9	503.9	575.2	7907.3
59	589.3	539.6	639.2	687.9	621.3	518.4	638.7	581.2	423.0	478.6	497.4	593.1	6807.8
60	570.9	493.3	648.0	713.6	704.6	612.1	576.5	407.8	412.9	447.8	474.2	537.3	6599.2
61	564.0	509.3	523.7	475.2	490.8	449.1	408.2	413.5	403.5	415.9	419.7	460.5	5533.3
62	530.8	498.6	479.0	442.3	563.8	501.1	945.2	587.3	434.3	454.2	487.8	526.9	6451.3
63	625.4	686.4	644.0	657.2	753.3	458.2	668.6	437.0	913.8	466.2	480.3	551.0	7341.4
64	567.3	563.3	646.1	629.2	582.7	577.9	1198.2	803.9	780.8	467.7	492.6	544.2	7853.9
65	632.2	694.4	938.4	964.0	765.7	903.2	1444.4	1067.9	724.9	536.0	553.2	732.5	9956.7
66	745.9	938.2	1053.5	962.4	638.9	588.2	562.0	442.4	438.0	469.7	484.0	552.3	7875.3
67	572.8	514.0	533.0	498.9	525.9	478.8	1024.8	596.0	774.8	496.2	521.1	632.1	7168.3
68	673.5	737.3	966.1	878.0	698.0	519.3	501.5	616.0	508.5	470.9	556.6	610.6	7736.3
69	647.9	703.2	929.7	1074.1	876.7	828.0	937.5	898.5	543.0	484.6	505.8	585.1	9014.1
70	673.9	710.9	721.2	960.9	661.5	578.0	902.6	825.6	828.4	510.8	524.1	671.2	8569.1
71	663.0	722.3	1047.2	1416.5	876.3	1002.4	1401.3	1652.9	1252.5	739.1	622.6	780.1	12176.2
72	933.6	1162.7	1096.7	1350.9	1009.8	1426.8	1205.3	1236.9	1027.8	505.2	532.1	652.4	12140.5
73	851.0	1106.4	1082.2	1163.9	715.0	663.8	770.4	677.0	496.4	489.8	525.8	615.6	9157.3
74	650.4	865.3	1064.2	1036.5	688.3	813.8	1658.3	1103.3	1177.3	496.3	534.9	615.0	10703.4
75	768.6	1061.5	1061.4	949.6	747.1	784.4	1293.2	1128.4	1032.2	547.2	625.6	628.5	10627.9
76	847.0	1048.2	1109.2	1190.4	864.3	1041.8	1351.6	1440.6	899.8	475.3	554.4	648.3	11470.9
77	647.2	947.9	1033.6	879.6	662.7	503.7	422.0	440.8	423.4	444.6	447.0	487.6	7340.2
78	499.8	472.4	511.3	494.2	431.2	450.9	609.6	1019.8	467.3	495.9	542.2	651.8	6646.3
79	631.6	695.1	862.1	878.3	658.5	588.3	849.8	391.8	400.0	445.0	485.5	567.1	7453.2
80	583.7	517.1	626.5	582.4	695.8	500.6	557.9	879.0	935.7	458.4	492.2	564.0	7393.2
81	642.4	684.8	744.9	851.3	606.7	450.2	434.1	384.9	421.3	438.3	461.2	550.6	6670.8
82	582.1	539.6	655.0	571.8	632.9	917.8	1294.2	1468.0	840.6	599.9	556.2	687.0	9345.2
83	950.5	1055.9	1058.4	1351.7	727.2	851.7	1031.2	1411.7	1401.1	652.9	668.9	586.5	11747.6
84	957.6	1241.4	1175.1	1562.1	857.5	936.9	1315.5	1561.0	1905.3	523.2	746.5	621.3	13403.7
85	881.9	1158.3	1090.4	1217.5	724.9	692.2	1145.8	965.5	449.8	476.1	492.7	606.1	9901.3
86	699.5	726.7	687.0	1169.1	846.1	1550.4	1422.8	1323.6	1389.7	541.4	552.0	668.6	11576.8
87	850.7	1017.2	1059.7	1109.0	726.2	594.2	418.7	443.7	448.2	493.9	506.8	564.9	8233.3
88	577.1	538.6	586.9	495.2	535.0	467.2	414.2	411.3	404.7	443.5	439.3	471.2	5784.2
89	544.9	515.5	477.6	488.0	422.7	480.8	682.0	444.2	420.6	458.8	510.6	581.5	6027.4
AVG	640.3	692.5	766.3	804.1	644.0	651.7	848.4	734.2	619.8	483.4	510.8	580.4	7975.8

US130

TABLE 9. SNAKE RIVER NEAR MURPHY
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	573.3	653.6	680.4	878.7	764.1	725.3	1410.1	855.7	664.3	441.5	483.5	544.4	8674.7
29	630.9	751.0	899.3	864.9	590.8	655.6	722.0	609.2	446.6	436.7	456.6	547.0	7610.4
30	580.0	606.4	652.3	664.0	692.9	530.5	430.4	488.3	398.2	416.0	493.9	561.3	6514.0
31	584.0	506.8	618.7	516.8	552.2	502.7	405.5	406.7	372.6	400.1	417.9	474.7	5758.5
32	512.7	486.4	516.0	487.4	461.5	527.1	469.4	496.3	448.4	410.9	446.0	545.1	5807.0
33	583.3	533.3	520.8	520.1	454.4	495.4	453.2	470.7	405.9	397.4	440.3	543.6	5818.2
34	589.1	528.6	541.7	539.2	477.9	439.0	389.0	376.0	353.7	376.4	389.2	435.2	5434.8
35	501.7	468.3	462.1	459.0	421.8	445.3	437.3	408.9	399.7	365.6	394.9	447.9	5212.3
36	501.9	485.1	477.5	523.2	523.3	513.7	565.9	466.8	498.0	411.6	468.3	562.1	5997.2
37	581.1	535.6	525.1	490.3	467.3	497.3	585.4	437.7	407.4	402.3	449.1	558.0	5936.4
38	592.5	538.4	565.4	533.9	517.3	616.0	632.0	825.2	506.3	507.5	493.8	545.0	6873.1
39	679.6	752.5	772.0	866.0	596.7	659.1	585.8	460.1	403.5	447.0	464.4	557.4	7243.9
40	588.7	529.4	549.7	530.4	580.4	537.0	487.3	456.8	387.8	406.0	429.4	565.7	6048.4
41	597.5	549.5	587.9	528.3	504.9	472.4	437.7	432.3	426.9	419.7	456.4	519.7	5933.0
42	553.2	550.9	594.8	510.4	451.4	506.1	549.6	479.6	484.5	391.7	420.9	518.0	6010.9
43	556.7	566.2	666.1	659.5	664.0	1160.7	1723.2	956.6	596.8	520.7	470.4	583.5	9124.2
44	639.8	767.1	1057.9	884.0	670.2	569.2	650.9	486.3	468.2	428.9	441.3	525.0	7588.6
45	581.2	570.9	658.3	703.5	677.5	544.7	757.8	813.6	467.9	454.9	469.8	592.0	7291.9
46	623.9	756.9	1067.4	926.1	623.5	754.8	1033.5	904.7	502.9	428.4	472.9	549.8	8644.6
47	657.5	717.7	979.0	835.2	683.9	554.6	1116.1	433.9	437.8	429.1	481.5	550.2	7876.3
48	638.9	712.5	856.5	914.5	691.0	641.7	509.1	808.4	735.8	446.7	459.9	547.9	7962.7
49	641.5	697.4	634.9	824.7	594.9	942.5	958.3	726.5	434.4	417.8	467.8	555.5	7896.0
50	647.7	719.6	657.1	887.7	726.3	748.2	1554.1	756.4	532.5	493.0	476.7	591.3	8790.4
51	727.4	1127.2	1115.9	1030.4	999.9	1077.6	1371.0	1000.4	447.6	419.7	493.8	598.5	10409.2
52	675.2	846.9	1081.4	1064.9	775.9	737.0	1819.9	1184.0	816.6	495.3	481.2	547.6	10525.7
53	674.1	729.7	835.8	1042.6	675.7	566.7	567.2	754.8	666.7	429.9	467.2	550.0	7960.2
54	600.1	710.4	662.6	841.2	660.6	550.4	1217.0	419.7	436.1	417.6	433.8	538.6	7487.9
55	582.9	716.1	651.7	696.5	595.5	517.4	620.2	430.3	359.5	410.6	422.3	523.2	6526.0
56	573.6	576.5	699.5	964.8	849.6	1095.8	1229.1	948.4	744.2	413.5	467.5	599.8	9162.1
57	646.5	781.5	1040.8	855.9	753.6	626.8	1473.2	1129.2	560.9	421.9	461.9	563.7	9315.7
58	666.3	718.9	946.3	908.2	727.4	580.1	660.0	870.7	477.3	415.0	454.8	552.7	7977.5
59	596.8	562.3	657.6	716.5	657.8	556.0	650.3	548.3	388.6	403.5	433.9	567.7	6739.1
60	577.6	491.8	657.5	715.9	707.0	652.2	616.2	412.3	381.7	388.2	422.3	509.0	6531.5
61	561.7	532.0	548.8	496.9	515.9	478.5	407.7	373.6	345.8	345.4	376.3	460.8	5443.2
62	551.5	544.4	519.0	480.2	621.3	540.7	1021.0	655.3	476.7	413.2	447.4	512.4	6782.9
63	646.2	718.8	666.9	683.6	815.9	508.2	692.7	437.0	970.0	412.6	423.1	531.5	7506.3
64	570.6	588.6	679.0	657.3	611.8	610.3	1217.3	793.1	778.6	415.6	437.2	521.2	7880.4
65	635.3	726.2	1019.9	1012.2	795.7	932.6	1484.3	1130.3	749.3	508.7	536.7	734.7	10265.7
66	761.4	964.1	1086.6	996.4	670.1	620.7	557.1	403.1	370.8	401.0	439.2	545.8	7816.1
67	598.7	548.2	568.1	526.3	559.6	521.5	1008.8	572.2	790.5	448.4	452.0	593.2	7187.3
68	668.5	755.3	979.1	894.9	730.4	546.2	495.1	579.2	493.7	401.3	542.5	590.2	7676.2
69	675.2	753.7	961.8	1125.0	912.7	857.0	1056.1	975.0	544.1	444.9	455.1	562.9	9323.3
70	676.0	730.8	738.0	1019.6	729.6	621.9	919.3	892.0	850.5	476.5	478.4	651.7	8784.1
71	659.1	733.3	1063.7	1499.4	933.4	1052.1	1448.1	1760.4	1290.1	739.3	580.3	748.6	12507.6
72	932.5	1186.6	1122.0	1403.3	1061.2	1618.9	1276.0	1333.5	1075.3	492.1	505.6	641.8	12648.6
73	888.1	1158.1	1132.5	1207.1	745.7	706.2	805.7	719.0	473.8	424.5	463.4	576.5	9300.4
74	639.6	870.0	1006.2	1004.2	736.0	924.9	1749.6	1181.8	1190.7	442.4	473.1	556.9	10775.2
75	758.6	1074.9	1070.9	966.9	764.8	819.4	1301.2	1242.2	1129.2	536.2	581.0	598.4	10843.5
76	851.8	1055.0	1134.6	1215.3	891.5	1089.8	1419.9	1506.3	905.5	412.5	512.1	622.3	11616.4
77	650.6	981.8	1064.7	905.4	689.5	521.3	439.2	433.7	396.1	388.6	392.4	458.9	7322.0
78	492.3	485.8	536.2	520.8	457.6	513.6	655.5	1027.2	452.2	432.8	446.0	602.3	6622.1
79	613.0	708.3	904.3	934.2	728.9	639.7	923.0	477.8	418.8	403.1	427.4	517.0	7695.3
80	587.8	551.5	656.5	623.9	716.4	510.5	572.8	844.3	975.5	434.9	452.0	569.1	7495.0
81	633.4	684.5	752.9	854.6	621.2	494.6	449.5	385.1	420.1	394.0	410.4	518.0	6618.1
82	563.6	566.9	678.1	581.1	856.6	941.0	1277.2	1554.5	889.6	585.5	512.0	667.2	9673.1
83	969.0	1108.7	1116.9	1423.8	804.1	981.3	1127.7	1481.9	1474.9	679.8	669.4	584.3	12421.6
84	948.5	1262.9	1252.5	1639.7	922.3	1018.9	1436.6	1791.7	2047.2	556.9	758.7	615.7	14251.4
85	868.1	1183.7	1137.4	1251.7	768.4	747.0	1245.0	1006.4	438.2	412.9	424.7	575.8	10059.1
86	684.9	736.2	697.6	1137.0	990.1	1671.6	1458.8	1339.7	1401.2	479.2	475.0	623.1	11694.2
87	847.4	1049.8	1093.8	1139.4	740.0	622.8	458.7	439.9	392.7	406.9	424.0	511.4	8126.6
88	564.7	547.3	600.2	507.3	554.1	511.5	441.2	417.4	379.1	369.1	372.3	440.4	5704.4
89	540.7	526.5	500.1	494.0	454.4	569.2	761.6	433.5	389.4	394.0	448.4	536.4	6048.0
AVG	645.1	719.0	793.2	832.0	680.5	696.6	890.2	765.2	622.1	440.6	466.1	558.7	8109.2

CS89

TABLE 10. BOISE RIVER NR BOISE
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	70.6	8.9	12.6	95.0	151.5	99.8	460.0	578.3	260.5	263.5	259.0	171.8	2431.5
29	52.0	8.9	9.2	4.9	4.4	20.6	77.0	259.1	243.0	279.7	266.2	188.3	1413.4
30	30.7	4.8	4.9	4.9	11.0	11.5	114.4	223.0	265.0	265.3	248.8	164.7	1349.0
31	47.0	0.0	0.0	0.0	0.0	0.0	74.9	255.8	224.7	232.1	220.5	132.0	1187.1
32	24.4	0.0	0.0	0.0	1.8	45.8	111.4	303.3	365.8	282.2	271.8	202.4	1608.9
33	68.6	8.9	9.2	9.2	33.8	12.5	93.0	277.8	381.8	279.8	272.0	189.2	1635.9
34	42.8	8.9	9.2	9.2	40.9	26.6	119.4	213.4	206.7	235.2	230.2	117.2	1259.9
35	26.9	8.9	9.2	9.2	8.3	52.8	81.2	259.5	269.5	278.4	265.2	191.2	1460.6
36	27.0	4.8	4.9	4.9	4.6	40.8	306.4	474.3	300.4	274.9	266.3	181.2	1890.4
37	54.1	8.9	9.2	9.2	8.3	9.2	67.8	263.3	234.3	256.4	232.9	131.6	1285.5
38	26.5	8.9	9.2	9.2	8.3	109.7	460.0	580.0	412.8	279.0	274.2	188.0	2365.8
39	78.9	8.9	9.2	9.2	9.0	39.0	226.2	299.9	215.0	225.1	223.4	125.9	1469.9
40	71.2	8.9	9.2	9.2	8.6	45.7	242.6	347.4	258.7	225.9	244.7	125.0	1597.4
41	70.2	8.9	9.2	4.9	4.4	25.2	114.6	232.5	214.9	260.4	254.0	179.7	1379.1
42	77.9	4.8	4.9	4.9	8.2	26.2	221.7	232.6	346.3	264.3	240.4	169.6	1602.0
43	59.3	4.8	4.9	270.0	340.0	420.0	460.0	580.0	554.2	276.0	271.2	198.1	3438.6
44	65.5	8.9	45.0	9.2	8.6	25.7	112.8	254.3	205.4	258.7	239.0	165.2	1398.4
45	38.5	8.9	9.2	9.2	8.3	23.4	126.1	320.3	393.2	272.4	253.7	170.5	1633.9
46	59.7	8.9	9.2	9.2	185.2	208.3	460.0	486.9	311.4	255.3	231.6	171.0	2396.9
47	69.3	8.9	12.7	43.5	121.5	92.2	238.9	403.0	291.8	259.7	255.8	165.4	1962.6
48	67.8	8.9	9.2	9.2	8.6	10.5	163.5	414.4	400.9	268.1	267.9	169.1	1798.3
49	62.5	8.9	9.2	9.2	8.3	157.8	240.9	397.9	256.0	258.6	251.7	158.0	1819.1
50	44.7	8.9	9.2	9.2	8.3	197.7	460.0	441.0	284.3	264.0	227.5	162.3	2117.2
51	40.8	56.3	89.8	9.2	211.8	224.6	368.8	562.3	334.6	262.7	216.6	163.1	2540.6
52	45.3	36.6	89.9	114.4	340.0	367.5	403.6	498.5	362.2	260.7	230.0	160.0	2908.8
53	60.5	8.9	9.2	9.2	196.6	128.8	195.7	406.4	391.9	269.4	257.9	167.4	2102.0
54	80.4	8.9	9.2	9.2	229.7	111.6	252.9	469.7	272.8	272.9	248.3	160.4	2126.1
55	76.7	8.9	9.2	9.2	8.3	15.9	87.6	286.5	324.1	253.8	244.9	170.3	1495.6
56	76.0	8.9	62.6	150.7	307.8	420.0	440.3	537.3	384.2	270.2	256.2	164.5	3078.8
57	68.8	8.9	9.2	9.2	93.4	224.7	285.9	580.0	472.4	274.4	269.3	169.1	2465.3
58	67.2	8.9	9.2	9.2	104.3	170.8	313.0	591.6	492.8	261.9	266.5	171.0	2466.4
59	71.6	8.9	9.2	9.2	8.3	96.5	176.0	279.1	300.5	269.8	267.8	136.8	1633.7
60	58.2	8.9	9.2	9.2	8.6	91.3	258.1	327.2	334.4	284.3	267.5	172.4	1829.5
61	71.4	8.9	9.2	9.2	8.3	9.2	79.7	257.2	254.4	243.2	254.7	132.0	1328.6
62	23.3	8.9	9.2	9.2	8.3	31.8	222.8	377.6	274.2	274.7	281.5	178.4	1700.0
63	62.3	8.9	9.2	9.2	8.3	34.0	160.2	357.4	411.4	291.1	272.5	172.5	1797.2
64	67.8	8.9	9.2	9.2	69.1	17.4	141.5	439.1	286.7	291.4	275.1	183.1	1798.5
65	63.8	8.9	85.6	240.9	340.0	420.0	460.0	532.8	507.7	362.2	245.1	204.2	3471.2
66	67.0	60.0	56.2	9.2	27.1	30.3	172.6	276.3	271.9	256.6	235.1	160.8	1623.2
67	57.0	8.9	9.2	9.2	8.3	9.2	61.6	403.1	328.5	290.2	276.8	198.7	1660.9
68	65.9	8.9	9.2	9.2	19.4	38.9	97.5	216.1	268.2	266.1	223.1	175.7	1398.3
69	66.8	8.9	9.2	9.2	340.0	275.5	373.1	510.5	259.8	258.5	272.5	163.8	2547.9
70	66.3	8.9	9.2	9.2	227.3	40.2	210.5	439.1	365.7	279.2	273.2	171.0	2099.9
71	46.0	8.9	71.8	162.0	340.0	380.2	460.0	580.0	509.1	322.7	270.7	192.1	3343.5
72	42.2	38.0	67.0	104.3	340.0	420.0	460.0	579.6	404.0	282.2	271.7	170.4	3179.4
73	56.6	8.9	24.0	9.2	105.3	33.3	103.9	243.9	258.1	258.9	257.7	128.6	1488.5
74	57.6	8.9	9.2	18.1	297.8	278.5	460.0	580.0	562.0	270.1	256.9	182.1	2981.3
75	61.9	8.9	22.5	9.2	94.0	224.8	460.0	575.5	382.8	284.6	254.1	177.9	2556.2
76	76.7	8.9	49.5	49.1	174.7	148.9	276.0	499.6	234.1	262.9	216.3	159.0	2155.8
77	66.5	8.9	9.2	9.2	8.3	17.4	110.4	192.3	211.7	234.5	219.8	100.3	1188.8
78	40.2	8.9	9.2	9.2	8.3	91.5	174.8	519.6	235.8	260.8	259.1	163.5	1781.1
79	56.8	8.9	9.2	9.2	8.3	25.6	96.1	259.1	270.3	258.0	216.7	154.0	1372.3
80	46.4	8.9	9.2	9.2	8.6	96.2	258.5	424.3	360.8	273.8	264.7	162.0	1922.8
81	72.2	8.9	9.2	9.2	8.3	45.4	136.6	290.6	273.6	269.3	261.2	182.3	1566.9
82	63.6	8.9	9.2	9.2	340.0	372.6	460.0	579.0	312.9	327.6	256.7	180.2	2920.0
83	50.9	68.4	90.0	113.8	231.1	348.9	460.0	580.0	557.5	339.3	255.8	197.5	3293.2
84	65.8	90.0	90.0	270.0	57.6	216.9	333.1	571.9	439.4	271.2	256.1	187.0	2849.0
85	73.2	47.1	68.5	61.8	50.9	96.1	220.0	271.0	261.8	268.7	251.9	137.6	1808.7
86	75.6	8.9	9.2	9.2	132.2	420.0	460.0	580.0	426.6	267.6	262.0	174.9	2826.1
87	55.0	8.9	9.2	9.2	8.3	25.6	136.6	225.5	201.1	222.3	211.7	130.5	1244.0
88	17.7	8.9	9.2	9.2	8.6	36.0	81.5	203.2	223.0	233.1	209.5	129.5	1169.5
89	20.8	8.9	9.2	9.2	8.3	52.8	210.1	369.2	237.1	260.1	240.0	167.4	1593.4
AVG	57.1	13.8	21.4	34.0	93.4	125.6	244.4	396.3	325.1	269.0	251.4	165.6	1997.0

CS89

TABLE 11. BOISE RIVER NR PARMA
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	74.9	63.1	64.2	144.6	195.9	104.6	416.7	372.2	58.9	59.4	61.1	63.6	1679.2
29	58.7	55.1	53.3	47.3	42.8	42.3	35.7	44.6	47.4	49.1	50.3	52.0	578.8
30	48.3	47.7	45.9	44.3	40.9	40.6	19.2	36.8	38.2	41.3	35.1	43.7	482.2
31	43.7	40.3	38.5	37.0	34.2	33.6	27.2	31.0	39.6	36.5	35.5	40.3	437.5
32	57.0	46.0	43.9	42.2	39.2	38.3	32.6	93.6	141.2	45.8	44.8	53.3	677.9
33	62.6	55.6	53.8	52.0	47.2	47.0	28.4	91.1	157.9	47.0	50.3	55.0	748.0
34	48.5	50.9	49.3	47.8	44.0	44.2	18.7	36.0	42.0	42.5	37.0	42.0	503.1
35	53.8	52.8	51.1	49.5	44.8	44.7	30.6	37.7	38.0	44.9	43.2	46.6	537.9
36	56.7	52.8	50.7	48.9	43.7	42.7	225.3	257.7	109.2	50.1	56.1	56.3	1050.2
37	51.0	52.7	51.0	49.4	45.5	45.7	30.8	38.1	41.8	45.4	42.7	45.8	540.2
38	66.2	60.0	57.9	56.0	50.1	90.1	381.5	399.6	201.6	53.6	52.9	57.7	1527.3
39	64.8	56.0	54.1	52.4	47.4	47.3	114.3	76.0	49.5	54.2	51.7	59.0	726.9
40	70.8	53.8	52.0	50.4	45.9	52.6	153.9	139.4	44.7	49.2	46.2	54.7	813.7
41	64.7	51.9	50.9	44.8	41.2	36.9	21.6	39.1	45.3	46.9	47.3	48.1	538.9
42	60.5	48.8	46.2	44.7	46.5	42.9	120.6	52.2	158.2	50.8	51.8	51.2	774.4
43	89.3	61.1	61.3	321.9	388.2	423.9	381.7	384.3	399.6	81.3	66.9	70.2	2729.7
44	67.4	56.4	92.4	53.7	48.3	48.6	58.3	52.1	52.9	57.3	59.2	62.8	709.5
45	69.7	51.1	51.7	50.4	47.8	47.9	56.6	156.6	176.4	46.2	49.7	55.3	859.5
46	79.9	58.9	56.3	55.6	231.8	227.5	363.7	271.3	99.6	54.7	58.1	59.8	1617.3
47	73.5	57.0	59.6	88.9	162.0	98.6	147.3	187.9	116.8	56.3	56.5	59.1	1163.5
48	71.1	58.0	55.9	53.2	50.7	50.8	82.0	240.1	203.0	52.9	50.7	55.2	1023.8
49	66.3	55.6	55.8	52.1	48.6	171.6	141.8	192.5	51.4	54.8	52.8	60.3	1003.7
50	80.2	59.9	58.7	56.1	52.0	214.8	410.8	240.9	105.2	54.3	58.8	62.8	1454.7
51	81.2	111.3	139.5	57.9	256.6	251.0	283.2	397.9	163.6	63.3	65.2	65.5	1936.2
52	85.6	93.3	145.3	173.8	393.6	386.5	356.0	298.7	166.5	69.3	69.8	70.4	2308.9
53	80.7	63.0	59.4	58.3	242.6	141.8	109.4	272.5	265.4	60.2	60.8	62.6	1476.8
54	73.2	57.4	58.0	54.7	269.1	125.9	154.9	254.5	116.6	57.0	56.6	58.8	1336.9
55	67.1	55.5	53.1	51.4	46.8	47.4	35.4	127.9	100.7	49.9	48.2	50.2	733.8
56	84.2	64.7	115.4	199.9	350.8	449.8	351.4	358.5	206.5	66.3	68.2	70.2	2386.0
57	84.4	65.1	61.9	59.9	140.3	243.3	256.6	435.0	268.9	65.7	62.4	70.7	1814.3
58	80.3	63.3	60.5	56.8	142.3	186.5	280.9	392.5	333.6	61.1	63.0	69.7	1790.5
59	78.2	61.8	55.6	47.7	36.8	99.0	74.2	113.6	76.4	50.4	64.9	64.0	822.7
60	83.3	57.9	52.5	49.6	47.0	102.5	165.2	146.3	117.5	56.0	62.4	56.8	997.2
61	62.9	60.7	54.8	47.3	40.6	39.6	18.0	34.6	36.9	33.7	27.2	35.3	491.8
62	57.2	54.7	49.7	45.4	43.3	44.2	122.0	201.6	40.6	49.0	47.5	52.6	808.0
63	77.4	60.3	54.1	46.7	51.1	42.4	108.3	119.6	227.0	53.8	49.5	62.1	952.4
64	77.2	65.4	58.4	58.8	110.1	57.1	82.6	226.3	150.2	52.1	60.5	66.7	1065.5
65	77.8	62.7	143.4	289.0	365.9	408.5	400.3	314.5	306.4	152.4	89.8	99.8	2710.6
66	83.6	113.9	102.0	48.3	58.2	31.8	87.4	49.5	54.6	44.7	34.7	43.8	752.5
67	59.4	59.6	54.1	51.3	45.6	38.2	31.8	178.9	162.6	49.8	45.3	54.7	831.5
68	73.8	58.8	53.8	49.6	42.3	39.8	15.5	34.6	38.3	40.5	57.7	39.5	544.3
69	70.2	62.3	57.4	67.1	370.4	281.4	301.3	315.0	61.6	53.7	54.9	53.6	1749.0
70	78.1	63.6	58.9	70.1	267.5	50.2	140.6	251.8	165.4	72.2	63.1	75.8	1357.4
71	87.8	67.8	126.6	222.4	384.1	410.6	427.4	404.5	347.3	125.5	65.2	67.1	2736.3
72	92.0	95.5	121.9	150.8	387.0	447.3	392.2	382.5	233.4	59.3	64.1	70.8	2496.7
73	77.9	58.9	80.5	59.4	142.0	47.4	28.9	42.2	47.1	57.0	54.0	60.5	755.9
74	67.0	61.3	63.1	71.7	332.0	291.7	368.7	358.1	348.2	78.2	59.1	61.2	2160.4
75	76.2	60.7	73.0	54.8	133.1	236.8	385.0	367.9	194.0	57.0	66.1	66.1	1770.7
76	81.2	59.1	97.1	92.1	218.3	160.1	204.5	291.1	60.2	58.6	75.9	79.1	1477.4
77	75.6	57.3	51.8	48.6	41.4	40.1	15.4	32.9	26.5	27.4	25.1	34.3	476.6
78	46.4	48.3	50.9	55.5	50.7	70.1	95.8	344.0	35.1	52.1	54.4	62.9	966.2
79	68.0	53.1	49.3	47.9	70.2	45.8	21.4	27.7	33.4	41.1	49.8	49.8	557.6
80	57.2	56.8	52.3	56.5	51.3	104.3	175.5	256.2	189.2	57.2	51.6	81.6	1189.8
81	67.0	54.9	54.6	51.0	47.1	56.0	96.9	96.6	114.9	46.5	49.3	56.3	791.2
82	65.3	57.7	61.3	61.9	409.3	387.6	422.2	363.2	106.5	157.6	64.1	68.6	2225.3
83	87.0	117.9	145.5	190.9	305.1	398.2	428.8	449.9	340.3	155.4	74.1	73.9	2767.0
84	76.8	141.0	145.4	316.1	125.9	255.1	282.8	378.2	294.6	70.9	61.5	71.4	2219.7
85	73.7	101.9	114.8	105.4	90.8	109.3	139.8	55.3	39.1	44.2	50.4	77.8	1002.5
86	70.1	54.8	57.3	54.6	184.5	459.4	383.0	397.9	212.1	68.4	60.0	84.4	2086.5
87	80.6	58.5	58.7	51.3	47.2	49.9	19.2	44.4	40.3	41.6	35.9	40.7	568.5
88	46.5	52.8	50.7	48.0	42.9	42.3	20.0	28.7	31.1	24.7	22.9	26.2	436.9
89	34.0	49.5	46.1	43.4	45.5	66.5	148.5	157.3	35.3	39.5	42.1	56.5	764.4
AVG	69.8	63.1	68.5	79.2	133.4	141.7	173.1	201.2	132.4	58.7	53.8	59.1	1233.8

CS89

TABLE 12. PAYETTE RIVER NR HORSESHOE BEND
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	114.7	127.0	136.3	113.7	88.0	225.2	332.7	720.0	422.5	209.5	215.5	179.7	2884.9
29	102.8	50.7	47.9	47.1	44.5	67.0	114.2	231.2	254.4	204.7	207.4	118.3	1490.0
30	63.3	43.2	71.1	48.4	59.5	86.4	196.1	232.0	204.3	200.7	207.2	128.0	1540.0
31	74.4	47.4	55.1	49.2	46.7	70.8	132.8	188.9	143.2	144.3	141.7	92.7	1187.1
32	54.4	44.6	50.5	45.0	47.0	90.7	238.9	498.3	500.4	227.0	216.4	185.1	2198.2
33	100.7	53.3	54.1	48.8	47.9	55.6	169.3	250.0	590.2	206.6	215.6	169.8	1961.8
34	80.3	51.2	59.7	83.0	73.7	146.2	249.2	220.3	148.6	181.6	208.9	117.1	1619.7
35	67.2	55.0	49.8	51.7	51.5	62.9	196.8	284.0	207.5	206.5	134.6	1652.1	
36	62.5	42.6	55.3	45.6	47.0	67.4	335.9	581.8	328.8	212.6	211.8	152.3	2143.6
37	64.9	49.6	46.6	47.9	48.3	64.5	140.8	273.3	172.7	189.7	208.1	116.7	1423.0
38	56.4	52.8	94.8	64.0	62.6	133.1	432.4	644.3	576.1	268.8	218.1	199.3	2802.6
39	118.3	57.9	54.6	52.8	47.6	101.6	222.0	262.3	150.7	194.0	207.4	133.5	1602.5
40	67.6	43.9	57.8	61.1	77.0	202.4	403.1	519.0	248.9	205.1	206.8	127.4	2220.0
41	86.2	64.3	61.8	57.9	62.5	112.2	173.1	334.6	380.8	202.8	215.6	182.9	1934.7
42	109.1	74.9	116.4	75.6	68.0	94.6	269.0	436.5	380.8	213.2	220.4	197.4	2255.9
43	99.9	65.4	71.1	106.8	160.8	233.1	712.6	558.7	564.3	433.2	221.0	193.5	3420.3
44	129.5	63.5	57.5	54.7	63.0	106.6	126.1	207.9	212.0	212.3	211.7	114.0	1558.7
45	63.2	53.6	53.0	55.6	63.5	80.9	135.8	342.9	415.1	217.1	219.7	192.1	1892.5
46	104.2	56.1	65.7	70.8	58.6	141.2	504.3	621.8	393.0	214.0	217.3	183.2	2630.1
47	123.8	81.3	156.1	72.1	115.6	149.2	325.5	587.6	408.5	213.2	217.1	192.2	2642.2
48	119.9	62.5	56.7	74.0	66.4	102.5	211.9	579.6	590.1	205.5	215.2	175.8	2460.1
49	114.2	57.8	49.5	41.2	56.1	121.5	349.9	603.8	324.7	216.1	213.3	165.0	2313.2
50	74.7	57.3	58.1	64.3	65.3	119.0	360.7	414.1	551.7	349.4	216.8	192.8	2524.2
51	137.1	77.8	109.6	77.1	130.0	132.9	493.4	570.4	386.9	254.9	213.4	186.1	2769.5
52	130.0	69.3	104.1	120.6	145.8	180.9	461.9	720.0	533.2	252.6	215.0	188.8	3122.2
53	112.0	58.6	55.6	87.6	84.6	96.9	282.7	406.8	666.9	329.9	217.3	192.4	2591.1
54	113.5	60.7	60.9	67.1	81.8	140.4	428.1	601.6	390.6	279.3	219.4	193.9	2637.2
55	106.6	57.1	54.7	53.0	53.2	53.3	100.6	298.1	381.7	231.9	214.4	180.7	1785.3
56	107.9	68.3	210.5	214.2	128.8	261.4	434.4	720.0	594.1	258.1	222.9	191.9	3412.6
57	122.0	66.4	73.4	59.0	83.2	155.4	397.6	720.0	565.3	224.2	220.3	171.8	2858.6
58	102.0	52.4	58.7	58.3	86.5	93.4	319.6	720.0	564.9	207.3	218.2	176.9	2658.2
59	110.4	66.5	74.1	79.3	65.0	102.9	249.1	352.5	410.0	211.8	213.7	172.5	2107.8
60	134.1	76.1	76.8	57.5	60.4	125.9	246.1	411.0	458.0	211.8	205.8	174.0	2237.5
61	78.3	59.7	54.4	52.4	75.8	96.3	145.6	305.0	370.8	201.2	212.0	139.4	1790.9
62	77.7	55.1	55.4	56.2	66.1	81.1	288.0	406.9	394.2	209.1	214.7	171.9	2076.4
63	145.0	90.0	169.1	69.6	154.9	102.2	238.3	519.7	453.8	213.9	212.0	180.2	2548.7
64	106.5	64.8	54.6	55.6	62.4	84.4	172.7	373.4	561.3	241.5	215.7	188.2	2181.0
65	122.1	60.6	214.1	219.2	209.7	154.9	473.7	702.8	707.2	336.1	222.4	190.5	3613.4
66	132.5	80.7	73.1	64.8	60.7	104.9	184.5	277.1	229.5	196.1	208.0	126.6	1738.5
67	66.5	54.7	57.5	70.0	59.6	92.5	131.5	430.8	576.4	248.4	218.5	191.9	2198.2
68	117.6	58.1	55.7	53.2	98.3	114.3	126.7	242.3	334.3	212.5	201.3	165.6	1779.8
69	108.7	73.4	62.7	122.3	169.4	186.3	415.6	644.9	365.9	203.9	203.0	170.0	2726.1
70	99.2	55.5	59.9	125.3	89.0	109.5	206.1	491.4	709.7	279.6	217.1	179.9	2622.1
71	134.8	94.0	121.1	197.0	185.7	204.2	469.9	720.0	772.9	376.5	217.9	187.7	3681.7
72	126.3	60.5	59.8	92.5	102.0	380.5	276.2	559.9	711.9	254.0	214.2	180.9	3018.6
73	131.5	61.6	79.1	82.2	61.1	93.2	121.1	243.6	199.4	191.6	198.4	124.7	1587.4
74	83.7	109.8	135.1	309.4	207.4	325.2	524.5	622.3	892.6	431.6	215.7	190.0	4047.1
75	131.4	56.3	54.3	57.9	55.3	82.0	240.8	386.3	566.5	402.4	215.3	193.3	2441.7
76	129.1	85.5	176.5	77.5	99.4	78.4	349.4	590.2	410.0	220.6	206.7	179.3	2602.5
77	117.6	54.3	61.2	47.6	61.5	80.2	113.5	125.9	127.1	145.1	139.4	91.9	1165.3
78	49.8	52.9	111.2	73.3	78.5	176.1	278.8	386.6	512.2	329.5	215.6	189.6	2454.0
79	142.7	57.0	59.9	52.1	56.6	84.9	123.4	264.1	215.4	190.0	205.6	147.2	1598.9
80	74.3	44.8	52.2	80.6	91.9	119.2	338.7	589.1	485.8	252.2	221.2	183.4	2533.4
81	126.3	64.2	150.9	92.5	109.9	125.0	204.9	419.1	421.2	212.7	212.8	182.2	2321.7
82	87.8	77.1	97.9	95.8	222.6	311.8	397.0	665.3	718.1	448.3	219.7	191.0	3532.4
83	128.6	95.0	155.4	142.4	125.1	330.2	397.7	559.5	671.1	365.7	227.5	193.4	3391.6
84	130.6	111.1	160.6	120.9	77.0	186.9	355.7	560.7	659.6	334.7	220.1	190.4	3108.5
85	122.8	73.0	106.4	75.1	66.9	86.0	284.0	397.3	256.8	210.1	209.9	153.8	2042.1
86	115.3	65.8	64.5	71.8	175.2	431.5	422.7	455.1	530.5	210.3	218.1	180.6	2941.4
87	116.7	63.6	56.3	53.6	53.7	98.1	137.9	173.9	147.8	157.6	144.2	107.0	1310.2
88	60.5	42.8	53.6	50.4	49.3	76.0	156.9	191.4	150.3	161.6	148.6	108.3	1249.7
89	57.6	51.9	51.2	50.0	49.6	139.9	278.9	370.6	251.9	208.0	206.0	146.8	1862.4
AVG	102.4	64.2	82.6	80.9	87.4	137.3	283.9	448.2	429.1	242.5	209.4	166.1	2333.9

CS89

TABLE 13. PAYETTE RIVER NR PAYETTE
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	123.7	156.8	171.0	154.0	136.9	336.2	361.6	686.9	326.3	94.1	104.7	130.6	2782.8
29	101.1	78.9	77.3	75.4	76.3	110.2	113.2	148.7	155.0	77.4	84.2	55.9	1153.8
30	66.3	68.4	97.4	70.9	100.2	126.6	177.3	146.4	91.8	73.0	85.3	65.5	1169.2
31	69.5	77.9	74.0	71.7	74.6	110.7	128.8	92.2	30.6	28.1	29.3	47.6	835.0
32	57.4	70.3	76.7	73.2	81.0	182.8	293.2	450.4	426.5	110.9	100.7	130.6	2053.6
33	101.5	84.0	76.5	75.4	77.7	113.8	180.8	188.1	529.3	87.3	97.5	108.4	1720.3
34	69.4	80.6	88.5	123.6	108.2	176.5	211.1	107.3	40.0	54.9	85.4	57.2	1202.8
35	75.0	79.3	76.9	80.7	84.8	98.2	210.3	208.4	189.6	85.2	86.1	73.2	1347.7
36	65.8	74.8	77.0	75.0	85.9	118.8	382.0	537.7	251.7	87.4	89.7	90.0	1935.8
37	54.8	67.9	74.9	70.2	75.7	113.2	151.4	199.3	71.9	60.1	77.5	54.5	1071.3
38	64.4	83.7	144.3	102.1	104.3	235.4	494.3	634.6	521.4	164.7	105.2	136.2	2790.5
39	115.1	90.7	83.6	80.3	81.9	169.8	207.6	167.8	39.6	64.3	85.0	61.3	1247.0
40	58.0	69.9	90.4	94.6	139.3	292.6	437.0	461.6	156.3	86.1	90.3	80.9	2056.9
41	88.1	92.7	97.8	95.5	96.0	165.1	169.6	255.2	306.7	87.7	97.9	126.8	1679.0
42	107.6	109.1	161.3	120.1	128.7	139.5	280.6	379.8	300.2	90.9	99.8	129.1	2046.5
43	105.1	100.2	128.7	188.9	224.8	302.7	799.5	530.8	501.8	330.7	111.0	141.9	3466.0
44	125.3	94.5	83.0	77.2	94.8	136.5	130.1	128.2	126.1	83.2	83.9	55.3	1218.1
45	67.9	80.8	76.6	87.6	120.2	124.6	158.8	303.4	357.8	94.4	97.9	126.7	1696.7
46	112.2	90.8	113.3	117.5	111.7	230.5	551.5	570.7	300.9	96.4	103.0	133.5	2531.8
47	132.8	125.8	211.1	106.0	159.9	202.9	325.2	529.4	343.7	97.3	102.7	133.1	2469.7
48	132.0	97.7	94.2	114.1	108.7	140.2	244.6	538.4	535.6	93.7	101.5	131.5	2332.0
49	116.3	85.7	84.1	74.3	111.4	186.5	354.7	559.5	248.1	89.6	90.6	111.5	2112.3
50	86.5	86.4	78.2	99.2	117.3	191.1	387.6	360.8	483.7	239.7	102.7	133.1	2366.3
51	133.4	103.6	145.8	118.1	199.0	189.1	514.0	517.1	307.4	137.6	103.5	134.2	2602.8
52	142.3	101.4	179.3	154.0	216.3	237.1	554.0	705.1	489.8	144.0	106.7	138.2	3168.1
53	114.6	79.7	79.1	148.8	141.0	141.4	291.0	361.7	637.1	231.4	102.7	133.0	2461.4
54	116.9	91.1	87.1	108.2	133.5	196.6	427.0	539.5	315.5	167.1	102.7	133.1	2418.1
55	103.1	77.7	75.9	76.4	82.7	93.2	122.3	239.8	297.8	112.5	96.2	117.0	1494.7
56	127.9	97.2	272.7	279.2	177.6	330.4	451.2	676.6	528.1	141.8	109.0	141.0	3332.6
57	134.2	95.0	111.9	74.5	144.7	248.0	443.5	735.8	507.4	103.9	104.3	117.2	2820.3
58	110.9	80.0	93.2	99.7	169.8	147.2	357.1	709.5	508.3	92.8	103.1	122.6	2594.1
59	105.4	87.0	101.7	114.7	109.9	139.1	233.5	276.8	321.3	88.8	97.1	128.3	1803.4
60	147.8	99.8	103.7	88.2	114.0	197.2	265.1	353.3	376.5	88.9	89.8	110.0	2034.4
61	69.9	80.5	79.6	81.9	125.5	150.0	138.9	215.8	267.2	70.5	87.0	79.1	1445.9
62	80.5	78.5	86.6	85.5	122.2	132.9	298.2	345.2	316.7	88.5	98.7	110.0	1843.4
63	171.2	116.6	194.1	97.0	212.8	143.2	254.6	448.7	391.4	100.9	102.3	132.6	2365.4
64	108.6	99.4	89.1	79.7	97.6	139.3	210.6	325.0	512.3	125.5	99.5	129.0	2015.3
65	128.0	91.5	301.4	307.9	279.5	212.0	540.9	678.7	658.0	226.0	122.5	154.2	3700.6
66	126.6	104.8	106.1	99.1	93.1	137.1	158.3	189.1	121.8	69.8	85.4	57.2	1348.4
67	65.9	79.0	86.5	112.3	103.5	139.5	124.3	363.8	511.7	130.8	99.9	129.4	1946.4
68	127.7	85.4	82.1	79.0	155.6	157.0	104.0	150.0	235.1	86.0	86.9	107.2	1456.2
69	112.4	103.3	99.0	199.8	220.4	246.7	468.2	609.6	295.8	93.0	94.1	116.0	2658.3
70	109.6	78.1	78.5	226.7	148.4	168.9	206.6	442.3	675.2	179.3	103.2	133.8	2550.6
71	139.4	125.8	167.9	266.7	254.7	288.7	542.6	755.1	773.2	301.0	111.1	143.9	3870.0
72	135.0	86.4	106.8	166.3	170.1	502.3	289.0	512.6	661.7	147.9	105.6	136.7	3020.4
73	126.1	82.8	116.7	123.2	94.1	136.8	114.8	180.3	110.1	77.5	84.9	69.1	1316.4
74	103.1	150.7	195.4	373.6	258.6	406.8	565.7	567.8	861.5	353.5	114.7	148.3	4099.8
75	131.8	79.7	84.7	92.8	107.5	166.5	272.6	380.6	530.8	303.8	101.4	131.4	2383.6
76	132.7	115.1	213.1	121.8	151.1	140.8	386.4	547.1	340.3	102.9	102.7	133.0	2486.9
77	121.7	75.6	79.6	71.7	87.0	107.1	62.0	27.0	27.2	25.9	27.2	44.9	756.8
78	65.2	79.3	162.4	130.4	147.7	250.1	317.5	372.0	458.9	230.6	104.6	135.4	2454.0
79	125.8	77.2	81.3	72.6	105.5	145.2	128.9	188.5	111.0	62.2	84.6	72.6	1255.5
80	70.7	81.5	78.2	147.2	150.0	173.2	363.2	567.4	457.7	142.0	98.8	144.6	2474.7
81	134.2	97.4	190.2	124.2	174.8	171.4	236.9	358.8	354.4	83.7	85.5	99.3	2111.0
82	101.3	113.2	169.3	140.4	366.4	404.0	476.9	643.2	675.9	385.2	103.9	125.5	3705.1
83	141.0	124.1	215.6	222.6	210.5	464.6	476.5	580.3	636.1	284.2	117.0	127.5	3599.9
84	130.6	146.7	196.2	147.9	125.0	305.8	426.6	543.4	613.9	232.6	91.5	121.1	3081.2
85	121.4	105.1	125.6	81.3	82.3	128.4	301.3	321.4	166.6	73.5	97.5	126.9	1731.3
86	138.1	100.6	86.4	112.4	312.5	552.6	456.0	408.8	452.3	90.1	104.2	141.0	2954.9
87	143.7	88.6	77.7	73.9	90.0	149.1	85.7	89.5	46.9	39.0	46.8	55.5	986.5
88	51.3	71.2	74.1	71.6	75.2	95.0	114.8	97.0	49.5	33.0	34.1	44.4	811.3
89	58.6	77.4	64.1	63.4	71.2	253.7	325.3	303.8	165.2	81.7	99.4	91.5	1655.4
AVG	106.5	92.8	117.3	120.4	138.4	199.9	304.1	395.4	356.5	127.5	93.9	110.1	2162.9

CS89

TABLE 14. SNAKE RIVER AT WEISER
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	932.1	1055.1	1099.4	1360.7	1215.4	1505.5	2457.9	2032.2	1162.5	667.9	687.7	816.5	14992.9
29	875.9	963.9	1064.7	1069.6	709.4	958.4	1052.5	919.2	741.5	576.4	606.0	674.1	10211.6
30	729.0	756.6	847.2	766.9	1012.9	804.8	698.4	775.4	568.0	541.9	632.9	712.2	8846.3
31	776.9	660.4	772.4	685.5	704.1	810.0	666.4	549.9	422.5	437.3	478.2	576.8	7540.3
32	640.1	654.6	678.5	639.8	603.0	1089.1	1069.3	1331.8	1182.7	605.1	598.6	777.1	9869.5
33	823.9	743.2	719.1	689.1	614.3	795.7	872.1	946.1	1254.8	541.5	606.7	747.5	9353.8
34	772.9	733.3	770.6	840.8	705.8	743.5	682.7	537.2	435.8	476.6	518.1	564.7	7781.9
35	675.1	659.5	646.7	650.0	594.1	887.3	880.5	750.7	674.8	523.5	553.4	615.5	7911.0
36	679.7	661.2	645.7	709.1	704.1	840.4	1548.4	1506.3	980.0	580.6	652.4	765.5	10273.4
37	760.4	722.4	721.6	674.9	653.1	790.3	916.6	765.5	595.8	528.5	594.6	705.1	8428.8
38	789.8	761.2	929.5	784.6	830.7	1249.6	1870.5	2318.6	1434.1	845.9	690.2	803.1	13307.7
39	968.7	973.5	971.6	1061.0	796.7	1093.0	1143.2	841.3	538.5	579.7	622.1	737.1	10326.4
40	794.2	716.1	755.7	756.8	991.4	1281.2	1461.7	1203.8	642.0	558.8	572.2	779.7	10513.6
41	842.1	789.1	851.3	805.5	882.4	1032.5	885.3	911.1	983.4	589.1	663.3	781.4	10016.4
42	828.7	793.6	948.0	769.0	788.1	895.5	1306.0	1181.3	1167.3	592.1	612.2	789.7	10671.5
43	852.2	844.2	1031.2	1465.3	1521.7	2497.0	3645.1	2225.6	1752.2	1105.3	713.9	892.6	18546.2
44	965.4	1024.9	1313.0	1075.1	907.3	870.0	1007.3	785.8	776.6	595.6	625.9	721.9	10668.7
45	814.0	792.7	855.8	932.6	1060.4	922.7	1158.0	1657.6	1256.3	647.5	669.0	874.4	11640.9
46	905.2	983.0	1381.0	1227.1	1054.5	1742.0	2496.7	2093.4	1086.6	646.1	679.2	853.4	15148.1
47	987.3	1025.0	1410.2	1103.3	1170.2	1026.8	1731.8	1363.0	1100.1	628.9	668.9	828.5	13043.9
48	945.5	946.7	1093.9	1188.9	951.0	939.9	1014.0	1825.2	1604.0	664.8	654.7	819.2	12647.8
49	929.4	897.7	831.9	975.0	902.2	1657.3	1695.8	1730.8	826.3	582.1	624.9	771.8	12425.3
50	883.7	921.7	848.0	1093.9	1010.8	1415.3	2554.0	1555.1	1278.7	869.8	680.5	867.2	13978.7
51	1049.2	1414.6	1479.0	1300.6	1684.4	1690.8	2528.4	2159.9	1094.5	693.0	733.0	884.5	16711.9
52	1030.0	1142.7	1575.1	1510.4	1559.7	1675.4	4369.5	3038.8	1700.6	825.2	701.2	857.1	19985.7
53	966.8	924.6	1018.5	1481.5	1239.4	984.3	1187.7	1674.2	1973.4	813.3	682.4	848.4	13794.4
54	908.5	952.0	894.5	1139.2	1225.4	1022.1	2005.1	1392.0	1033.4	682.3	647.6	810.4	12712.6
55	859.9	923.0	856.2	913.5	792.1	732.6	954.7	981.7	874.2	626.0	604.1	757.6	9875.4
56	874.3	811.5	1338.8	1689.3	1501.3	2100.1	2296.6	2290.1	1741.1	696.8	724.7	914.6	16979.0
57	999.6	1052.0	1327.4	1066.2	1334.9	1532.1	2530.0	2908.4	1525.3	649.5	695.8	856.6	16477.8
58	967.0	921.9	1194.7	1152.3	1411.4	1141.9	1989.8	2494.4	1527.5	641.6	709.3	852.4	15004.0
59	896.4	794.5	893.0	996.7	907.3	880.2	1089.7	1113.7	871.9	582.2	662.1	901.6	10589.2
60	928.7	741.0	894.5	929.1	1017.0	1277.3	1223.9	1073.4	966.2	567.3	658.0	783.7	11060.0
61	815.7	785.8	762.3	679.4	864.6	834.5	679.6	757.9	717.6	472.0	507.2	625.8	8502.4
62	755.8	727.6	719.8	650.4	949.2	856.7	1617.4	1348.2	918.6	588.9	639.8	754.3	10526.7
63	1011.6	1002.7	1056.5	899.0	1341.4	780.0	1198.0	1106.1	1689.4	634.2	630.4	826.0	12175.3
64	849.9	840.0	895.2	861.7	874.5	941.6	1812.1	1566.9	1725.1	637.6	659.3	824.8	12488.6
65	945.5	981.2	1788.9	1967.9	1976.9	1877.9	2805.4	2544.1	1910.1	959.5	870.2	1078.6	19706.2
66	1059.8	1236.2	1324.6	1222.2	885.2	941.3	923.7	763.6	624.2	564.4	598.3	707.8	10851.2
67	794.3	749.2	800.3	813.6	813.2	804.4	1317.2	1370.0	1589.5	681.1	637.9	850.5	11221.1
68	942.6	976.0	1171.8	1085.2	1115.2	904.8	713.6	886.7	806.7	557.9	751.7	814.1	10726.3
69	931.9	979.8	1169.2	1533.4	1571.6	1602.9	2463.3	2209.0	1050.2	654.9	678.0	845.7	15689.8
70	966.5	916.7	936.0	1675.5	1325.4	1034.0	1367.2	1845.3	1916.5	850.0	732.5	1004.8	14570.2
71	999.7	1049.4	1512.0	2472.5	1897.7	2211.4	3047.8	3447.1	2636.1	1302.8	827.9	1088.3	22492.6
72	1253.7	1442.6	1469.4	1925.8	1854.9	3485.7	2222.8	2453.5	2123.2	767.3	735.3	952.7	20686.7
73	1134.0	1340.6	1351.3	1495.4	1028.4	1035.9	1125.4	1107.9	723.8	621.5	683.5	847.4	12495.0
74	960.0	1241.6	1440.2	1715.7	1379.2	1983.1	3114.4	2363.1	2530.9	1036.8	765.7	890.4	19421.0
75	1116.6	1342.1	1333.4	1221.5	1141.9	1482.7	2453.1	2616.0	2233.6	997.2	856.1	928.6	17722.8
76	1210.5	1331.1	1555.5	1511.3	1346.3	1686.0	2506.9	2626.2	1487.7	693.8	823.7	989.5	17768.5
77	932.2	1158.4	1236.2	1081.2	850.3	686.5	532.3	513.6	450.5	422.5	455.7	578.9	8898.4
78	673.4	665.3	853.2	852.7	846.0	1087.0	1399.7	2122.8	1141.1	819.7	682.9	916.9	12060.7
79	862.7	874.6	1083.7	1106.5	1001.1	1129.1	1267.5	873.4	611.3	529.5	606.1	714.0	10659.5
80	772.7	737.7	838.8	954.8	1140.7	953.8	1383.2	1854.0	1854.2	683.1	650.9	892.7	12716.6
81	912.9	921.9	1153.7	1166.9	1090.8	891.8	978.8	1007.9	1030.1	569.9	602.7	738.7	11066.0
82	812.4	814.3	1082.8	897.5	2145.3	2311.4	2774.1	2993.4	1905.1	1306.4	773.8	996.6	18813.0
83	1257.8	1409.3	1642.2	2008.1	1722.5	2946.2	2694.2	3169.2	2768.8	1238.9	936.5	888.6	22682.4
84	1219.0	1638.6	1767.5	2351.5	1488.7	2695.8	3342.8	3692.8	3500.9	1031.1	1048.0	950.4	24727.2
85	1177.5	1493.2	1543.2	1568.8	1078.4	1240.5	2138.2	1552.9	750.2	599.7	670.8	912.2	14725.6
86	1032.7	953.5	994.1	1447.0	2101.8	3600.5	2761.9	2397.6	2243.4	768.7	737.9	969.2	20008.2
87	1141.4	1238.3	1253.1	1290.0	955.9	972.7	638.7	675.6	562.8	570.1	595.7	713.4	10607.6
88	753.7	741.4	791.9	683.8	748.2	741.8	649.9	622.2	537.6	467.4	480.3	585.3	7803.3
89	691.1	720.3	688.5	656.0	652.7	1429.3	1648.6	1068.2	690.4	565.5	657.4	774.7	10242.6
AVG	913.5	952.7	1078.6	1150.0	1116.9	1319.9	1686.6	1620.8	1266.2	689.6	669.7	816.2	13280.5

CS89

TABLE 15. SNAKE RIVER AT HELLS CANYON DAM
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	903.5	1097.6	1221.7	1660.2	1348.5	1881.0	2476.8	2043.0	1290.0	736.2	733.2	843.3	16235.0
29	834.8	971.1	1144.1	1342.9	794.6	931.3	963.3	1106.8	814.1	617.7	645.2	695.6	10861.4
30	684.1	868.8	956.0	961.2	1047.5	830.1	522.6	857.6	570.2	614.9	625.2	733.2	9271.4
31	733.5	800.2	845.3	880.8	716.4	830.1	523.9	707.1	468.8	461.2	507.4	507.5	7982.2
32	614.9	780.6	767.9	855.2	690.3	1070.8	1224.5	1496.7	1366.8	681.2	643.1	802.2	10994.2
33	784.4	868.8	834.3	901.8	666.5	830.1	829.9	1106.8	1478.1	621.3	652.7	773.1	10347.7
34	730.2	868.8	876.2	1072.6	737.8	830.1	505.8	648.9	476.0	494.3	522.8	530.9	8294.4
35	631.1	806.2	737.9	857.4	666.5	717.6	653.1	953.7	716.9	614.9	542.2	636.5	8533.9
36	635.7	805.2	737.9	906.0	733.1	872.0	1594.0	1600.0	1083.1	620.8	692.8	787.2	11067.7
37	714.6	861.3	795.8	869.2	666.5	830.1	694.2	970.7	630.8	614.9	584.7	726.6	8959.3
38	754.6	868.8	1132.5	1039.6	939.7	1598.5	1977.9	2301.6	1653.7	922.3	768.7	832.3	14790.3
39	933.0	984.6	1137.5	1291.3	846.6	1087.7	1103.1	1043.8	551.4	618.5	662.3	759.8	11019.6
40	757.5	866.0	848.8	985.0	1086.7	1289.2	1504.9	1383.0	783.4	614.9	611.0	812.7	11543.2
41	817.9	868.8	1056.7	1050.0	975.7	1070.7	881.6	1154.9	1187.8	668.0	713.2	816.5	11261.9
42	806.2	868.8	1137.5	1088.7	886.3	878.0	1491.3	1337.5	1362.2	694.1	662.3	821.0	12033.9
43	823.0	868.8	1153.5	1671.1	1834.9	2857.3	4013.7	1979.7	1982.0	1222.5	811.3	928.4	20146.2
44	934.1	1043.9	1396.5	1346.4	996.8	830.1	864.3	964.0	813.4	637.4	669.8	748.4	11245.2
45	776.6	868.8	1023.7	1154.7	1128.3	982.7	1215.3	1688.5	1447.0	726.9	717.2	905.0	12634.6
46	874.8	1002.1	1507.3	1535.7	1171.9	2092.5	2490.8	2195.7	1275.8	738.3	732.7	890.4	16508.0
47	959.4	1063.0	1537.2	1398.6	1318.9	1105.6	1778.7	1353.0	1245.2	691.6	715.1	858.9	14025.3
48	920.0	966.6	1194.7	1499.1	1079.9	1092.0	1116.5	1843.7	1951.5	755.4	708.7	853.5	13981.7
49	904.9	915.3	1068.1	1195.9	958.9	1897.8	1721.2	1821.6	981.3	634.1	671.3	800.5	13571.0
50	854.3	938.2	1079.5	1291.3	1088.9	1684.1	2440.7	1526.7	1509.9	935.8	771.6	900.1	15021.2
51	1024.0	1435.7	1587.1	1595.4	1825.9	1972.3	2573.3	2091.7	1219.9	764.9	780.5	913.6	17784.4
52	1007.6	1176.2	1714.3	1689.2	1883.7	2030.1	4822.1	2900.3	1945.9	922.3	784.2	892.0	21768.1
53	937.7	940.3	1137.5	1660.2	1534.9	1280.6	1198.5	1636.9	2337.4	922.9	783.5	883.7	15254.1
54	884.7	970.5	1129.2	1302.4	1351.8	1177.2	1949.1	1344.0	1163.4	747.3	698.2	843.0	13560.9
55	828.3	934.9	1079.3	1120.3	810.6	799.3	685.1	1123.4	995.9	681.9	649.4	783.1	10491.5
56	842.6	868.8	1469.6	1902.1	1799.8	2469.8	2508.6	2260.5	1992.1	792.8	780.6	948.6	18635.8
57	973.6	1073.7	1435.0	1369.2	1504.2	1882.0	2775.1	2739.3	1746.4	731.4	746.2	886.6	17862.8
58	938.7	940.3	1307.4	1464.7	1632.9	1466.7	2165.2	2530.4	1813.0	741.9	768.9	892.1	16662.1
59	863.6	868.8	1098.2	1256.8	964.9	830.1	1034.2	1283.8	1039.0	636.5	711.7	943.8	11531.5
60	917.6	868.8	1015.3	1130.7	1042.8	1293.8	1337.5	1163.8	1131.6	614.9	699.2	815.8	12031.7
61	776.7	868.8	930.7	884.0	955.6	830.1	595.1	951.4	810.3	583.4	522.7	594.7	9303.4
62	723.1	868.8	840.7	861.8	1027.1	830.1	1752.1	1408.5	1081.0	648.6	696.7	797.4	11536.0
63	1007.5	1039.9	1197.1	1243.0	1441.1	902.5	1218.1	1039.1	1761.5	713.1	687.2	862.5	13112.8
64	821.8	868.8	1103.5	1073.5	899.4	1146.7	1927.5	1377.6	1989.5	751.7	729.9	874.4	13564.3
65	919.6	981.2	1935.8	2210.3	2166.0	2398.8	3069.1	2364.1	2170.3	1049.0	922.3	1184.6	21371.0
66	1033.2	1260.7	1409.8	1499.6	965.8	832.0	904.5	936.9	642.0	614.9	611.4	723.0	11433.6
67	747.3	868.8	935.3	1051.0	864.3	830.1	1267.9	1351.6	1822.0	793.1	687.0	884.4	12102.8
68	901.0	970.0	1252.9	1364.1	1150.4	949.7	620.3	1079.5	900.6	614.9	795.7	848.3	11447.4
69	896.6	1008.4	1258.7	1722.8	1843.7	1904.6	2549.7	2160.7	1235.1	726.8	739.2	877.5	16923.7
70	937.9	924.5	1137.5	1801.8	1629.0	1283.1	1468.2	1581.0	2158.9	922.3	818.8	1031.2	15694.2
71	983.5	1091.0	1650.8	2714.6	2166.0	2550.2	3254.5	3491.2	2755.4	1439.6	922.3	1152.4	24171.7
72	1240.1	1488.2	1593.8	2150.0	2162.9	4014.9	2422.0	2178.9	2382.0	848.0	779.5	970.4	22230.9
73	1098.5	1332.0	1432.8	1660.2	1272.5	971.7	996.9	1272.4	881.0	649.9	705.4	842.9	13116.3
74	910.0	1323.1	1612.5	2039.3	1688.7	2333.2	3482.4	2346.3	2784.7	1213.8	877.0	925.6	21536.6
75	1070.6	1334.9	1403.3	1490.2	1240.1	1808.5	2652.8	2449.6	2515.5	1078.3	922.3	1011.5	18977.7
76	1186.0	1352.5	1705.9	1683.6	1617.7	1954.7	2800.0	2346.3	1621.5	780.7	883.4	1022.1	18954.5
77	900.9	1165.4	1306.8	1326.8	925.6	719.9	471.1	421.8	476.0	461.2	473.7	505.8	9155.1
78	616.1	808.1	1001.2	1102.6	908.3	1380.2	1335.4	2159.7	1279.2	922.3	741.0	966.2	13220.3
79	831.8	883.3	1156.4	1357.9	1115.3	1156.3	1249.5	1144.0	734.5	614.9	651.0	752.4	11647.3
80	737.3	868.8	935.1	1184.2	1204.4	997.2	1633.6	1661.6	2068.3	797.3	710.5	937.9	13736.3
81	883.4	928.3	1263.1	1465.6	1234.4	910.9	991.9	1014.9	1132.7	624.7	651.7	765.3	11867.1
82	789.2	868.8	1177.2	1276.4	2166.0	2883.3	3023.1	2966.8	2000.2	1481.5	883.7	1036.9	20553.1
83	1248.4	1444.0	1785.3	2212.5	2073.4	3451.3	2952.8	3213.1	2879.6	1398.0	992.2	997.4	24648.0
84	1197.2	1671.2	1868.5	2521.3	1751.3	3126.2	3711.4	3752.9	3699.0	1208.7	1105.7	1066.7	26680.9
85	1158.0	1531.3	1644.3	1705.5	1316.4	1411.7	2150.3	1631.3	921.5	649.8	725.0	944.5	15790.8
86	1007.2	974.1	1137.5	1634.9	2166.0	4256.1	2955.3	2101.8	2522.2	841.5	797.5	1021.9	21416.2
87	1130.2	1277.8	1361.7	1588.1	1076.4	906.6	595.1	868.9	554.3	614.9	617.2	740.7	11331.8
88	717.0	868.8	879.1	889.3	772.2	802.2	505.8	697.2	505.8	569.3	519.0	511.8	8237.4
89	641.9	864.6	768.3	868.5	666.5	1532.6	1751.6	1317.6	871.4	621.8	717.6	817.8	11440.0
AVG	882.5	1010.7	1207.2	1385.9	1245.2	1489.8	1741.0	1652.4	1422.3	769.8	720.2	845.7	14372.8

CS89

TABLE 16. CLEARWATER RIVER AT SPALDING
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	525.0	2458.9	1530.0	1830.0	886.0	1701.0	1187.6	4094.8	1795.5	607.6	354.6	550.7	17521.7
29	280.1	397.1	540.1	151.9	127.4	331.5	621.5	2143.8	1699.5	527.5	208.4	423.0	7451.8
30	192.3	357.6	600.7	790.4	342.0	474.5	1236.5	1979.4	937.0	319.7	198.9	385.8	7814.7
31	269.6	416.6	400.6	817.0	194.5	520.5	1387.7	2213.0	650.0	241.4	171.5	175.4	7457.8
32	199.8	213.4	233.8	567.0	212.0	974.0	2007.7	3282.0	2013.6	567.6	328.6	528.7	11128.3
33	228.7	532.6	617.7	785.1	262.0	859.0	1547.7	2271.1	3247.5	626.5	337.6	541.3	11856.7
34	369.4	850.0	2134.0	1945.0	708.2	1707.0	2824.5	1727.6	692.4	318.9	172.0	444.6	13893.6
35	225.4	469.5	614.9	412.1	251.1	442.4	1101.9	2387.6	1553.5	446.3	280.9	503.3	8689.1
36	196.5	358.5	516.6	263.9	156.8	983.2	2050.7	3391.7	1234.5	363.7	212.8	512.1	10240.9
37	187.0	344.1	518.8	412.4	307.8	300.3	620.2	2265.9	1056.9	324.9	197.5	359.7	6895.5
38	190.6	380.1	601.3	365.3	263.7	815.1	1420.6	2591.6	1846.5	469.9	286.6	512.5	9743.8
39	217.3	405.8	596.3	350.8	178.2	668.7	1355.4	2381.6	979.6	425.3	209.5	505.7	8274.2
40	198.4	361.0	584.1	283.6	557.0	828.0	1379.5	2028.7	924.2	324.7	170.7	502.2	8142.0
41	268.3	446.0	691.5	429.0	237.0	340.4	601.1	1247.0	1095.3	446.5	217.7	529.5	6549.3
42	409.6	677.9	952.4	588.6	401.6	404.8	1395.5	1608.1	1406.4	576.9	300.0	530.3	9252.0
43	198.7	493.8	731.6	828.5	641.0	1047.5	2802.7	2276.0	2777.7	1278.6	411.7	543.3	14031.1
44	218.4	410.3	552.9	150.9	169.3	271.1	723.1	1990.9	1001.5	381.7	220.1	381.2	6471.4
45	200.2	380.1	483.4	988.9	293.3	392.7	916.9	2750.1	1515.6	458.0	203.3	401.9	8984.4
46	231.3	526.2	722.6	951.4	285.1	749.1	1363.0	2403.0	1581.5	590.4	345.2	570.4	10319.3
47	379.9	631.4	1538.0	1060.1	766.8	1084.0	1282.6	3269.7	1828.5	588.0	344.5	554.0	13327.4
48	342.0	705.0	847.3	1167.5	821.5	1111.0	1945.7	3900.0	3633.6	756.5	485.8	551.6	16267.6
49	240.5	462.0	604.6	475.6	573.0	1434.0	2005.7	3586.9	1708.6	504.8	321.2	527.3	12444.3
50	242.9	495.5	679.2	707.8	776.9	1449.0	1975.7	2532.1	3004.0	1332.6	503.6	554.5	14253.8
51	355.2	810.6	930.1	1062.8	906.0	965.2	1555.6	2706.7	1851.5	660.7	343.6	526.0	12674.0
52	308.0	462.8	630.2	677.0	591.5	571.2	1873.6	2894.8	1828.5	555.1	331.0	518.8	11242.5
53	180.8	345.3	509.7	773.9	519.9	411.8	841.9	1820.8	2791.6	821.3	355.0	511.1	9883.1
54	189.9	381.8	595.5	419.9	615.3	994.8	1569.7	2384.0	2055.8	1063.6	441.0	554.4	11265.7
55	228.1	400.9	544.0	307.2	170.9	484.8	1340.6	2114.0	2668.9	1231.6	425.0	543.0	10459.2
56	265.6	665.5	1161.0	1230.9	577.5	1439.0	2757.7	3189.1	1964.7	662.3	385.5	539.6	14838.3
57	245.1	456.1	694.4	557.0	557.2	1319.0	1248.7	3485.9	2052.6	517.8	333.1	522.8	11989.7
58	226.9	390.4	601.8	640.9	769.3	376.3	1201.2	2833.8	1530.5	468.4	293.4	543.0	9875.9
59	277.3	878.0	1245.0	1645.0	810.8	1275.3	1440.7	2384.9	2652.7	707.0	360.4	654.4	14331.4
60	942.4	1272.5	816.5	681.3	531.1	1016.0	1698.6	2074.7	2391.5	512.4	358.6	528.6	12824.1
61	214.6	444.0	579.0	506.8	842.0	1167.0	1274.6	2345.8	2354.5	410.9	269.7	550.5	10959.4
62	291.7	414.7	612.5	637.5	483.1	830.3	1607.6	2313.7	2140.5	525.0	338.6	526.6	10721.9
63	353.5	670.8	865.7	443.1	720.9	750.0	1057.8	2153.9	1695.5	565.0	296.2	538.6	10110.9
64	203.9	406.9	559.3	367.7	478.9	477.2	1194.7	2408.1	3644.9	1101.6	485.8	646.7	11975.7
65	282.2	497.9	1411.3	1603.0	1196.0	1258.0	1902.6	2400.6	2667.8	717.6	447.7	639.0	15023.7
66	284.9	467.5	590.6	395.5	191.6	548.9	1192.0	1977.1	1343.5	419.2	269.2	528.3	8208.3
67	234.0	421.1	633.9	794.9	490.5	455.8	1032.6	2255.8	2890.6	687.0	322.3	513.2	10731.7
68	321.6	599.6	725.1	508.7	885.3	854.8	915.6	2210.8	1911.6	549.9	391.5	729.8	10604.1
69	506.7	915.0	801.3	1395.0	600.4	1165.8	1778.6	2755.7	1625.5	560.9	311.9	533.3	12950.0
70	265.5	415.0	595.4	794.5	746.6	631.4	621.1	2365.8	2926.6	715.1	359.6	600.6	11037.2
71	295.4	511.5	665.0	1080.8	1381.0	1209.3	1594.7	3211.1	3007.7	959.4	400.3	550.0	14866.2
72	222.1	405.3	574.6	581.6	1030.6	2979.3	1730.9	3138.9	4134.4	1133.4	441.6	547.1	16919.8
73	218.6	392.4	684.9	478.7	218.8	333.9	456.7	1397.9	1080.2	403.0	179.5	386.1	6230.5
74	202.3	541.1	853.8	1749.0	960.0	1681.0	2347.0	2557.1	4475.2	1180.0	427.7	534.1	17508.4
75	193.9	383.1	545.9	453.8	508.8	903.0	969.4	2359.1	3481.2	1646.8	548.9	608.9	12602.7
76	406.2	662.0	1626.0	1438.0	812.0	1157.0	1960.0	3183.2	2335.1	962.8	511.4	590.1	15643.8
77	247.2	400.2	543.6	156.5	169.9	225.3	694.0	1464.1	720.6	284.4	229.2	431.6	5566.6
78	306.4	550.5	1318.5	1703.5	515.0	912.3	1290.0	2128.4	2412.7	932.8	430.2	602.3	13102.7
79	226.3	375.7	544.2	693.1	363.5	939.5	1000.4	2666.6	1632.6	469.4	288.8	520.7	9720.8
80	215.5	369.8	611.6	397.5	415.5	541.0	1095.2	1976.6	1767.9	618.0	345.1	593.0	8946.7
81	228.1	503.8	908.8	681.1	665.3	654.4	1003.6	1952.3	2538.3	720.8	367.3	529.3	10753.0
82	235.6	412.1	670.3	699.3	1293.4	2089.6	1497.2	2341.3	2687.5	1209.9	443.2	569.8	14149.2
83	334.4	484.7	664.5	670.2	690.3	1333.7	904.5	1585.3	1489.4	760.6	416.9	557.0	9891.5
84	250.8	513.4	592.5	780.4	519.4	1284.2	1572.9	2345.7	3084.6	870.3	393.9	596.4	12804.6
85	255.4	475.5	596.7	626.7	657.9	470.7	1354.8	2163.9	1550.9	396.1	300.5	653.0	9502.0
86	352.7	688.8	636.2	517.9	938.3	2049.0	1368.3	2179.6	1481.5	469.6	250.5	573.2	11505.6
87	258.3	514.4	611.7	196.4	287.4	602.9	1170.7	1473.6	692.5	341.0	185.9	362.8	6697.6
88	193.7	372.1	576.1	441.1	284.6	471.3	1157.2	1863.7	1092.3	336.2	193.8	374.5	7356.6
89	206.3	424.0	559.7	354.8	384.7	930.2	1769.3	2048.9	1804.9	494.4	289.3	518.5	9785.1
AVG	274.8	533.4	744.8	733.3	551.5	913.7	1399.9	2410.2	2010.4	647.1	326.6	523.1	11068.9

CS89

TABLE 17. SNAKE RIVER NEAR CLARKSTON
COMPUTED FLOW, 1989 CONDITIONS (1000 AC-FT)

W-YR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	TOTAL
28	1959.5	4358.6	3473.8	4245.3	2735.6	4643.1	4961.2	10288.9	5274.9	2207.4	1453.1	1695.9	47297.2
29	1456.4	1687.6	1983.4	1796.6	1211.7	1814.9	2250.5	4938.8	4861.4	1901.4	1153.5	1373.5	26429.7
30	1139.7	1471.7	1921.2	2013.0	1864.2	1845.7	3074.6	4687.5	3185.8	1473.6	1133.5	1376.1	25186.5
31	1345.9	1501.9	1500.4	1988.0	1186.2	1826.0	2729.4	4593.9	1985.6	990.0	858.0	872.6	21377.8
32	1050.4	1241.3	1280.3	1714.9	1223.4	2942.0	4711.0	8066.2	6292.2	2261.7	1337.9	1606.9	33728.3
33	1328.7	1761.8	1765.7	2034.2	1220.5	2255.2	3379.2	5133.1	8862.7	2105.1	1327.2	1583.4	32756.7
34	1391.0	2071.1	3461.9	3552.5	1899.7	3371.4	5027.2	3967.9	1949.4	1163.9	899.0	1167.4	29922.4
35	1125.3	1600.6	1692.6	1595.9	1252.8	1591.8	2721.8	5331.8	4310.6	1681.0	1082.6	1342.6	25329.4
36	1067.7	1419.0	1499.6	1478.1	1184.6	2431.3	5439.4	8283.2	4107.0	1493.3	1186.8	1542.2	31132.0
37	1139.0	1438.3	1565.0	1531.3	1230.5	1572.8	2020.4	5213.3	3106.5	1425.9	1005.9	1274.7	22523.5
38	1194.6	1536.9	2228.2	1817.1	1632.4	3183.5	4883.6	8010.4	6852.8	2577.5	1468.0	1637.1	37022.1
39	1509.2	1732.0	2085.3	1971.6	1324.8	2550.9	3810.1	5788.7	2605.5	1557.0	1108.7	1490.8	27534.4
40	1227.9	1487.9	1771.5	1628.4	2142.0	2956.6	4314.7	6041.2	3212.4	1415.1	1014.6	1612.2	28824.5
41	1542.5	1734.0	2190.5	1865.9	1601.7	2036.2	2393.7	4534.2	4211.0	1853.8	1324.5	1731.4	27019.4
42	1668.1	2120.8	3003.4	2197.3	1787.9	1926.1	4802.3	5262.5	5494.8	2431.0	1357.3	1654.5	33706.0
43	1347.6	1793.9	2413.0	3057.5	3078.4	4776.5	9421.4	7187.2	8510.5	4787.5	1844.3	1848.4	50066.2
44	1523.7	1844.5	2285.8	1799.1	1498.6	1533.5	2336.9	4677.9	3755.1	1801.7	1251.3	1405.6	25713.7
45	1268.1	1580.1	1798.3	2516.7	1839.1	1888.8	2910.7	6627.1	5582.4	2117.7	1280.8	1598.3	31008.1
46	1422.2	1909.2	2684.8	2959.2	1862.3	3680.9	5544.2	7632.8	4987.6	2192.9	1447.0	1850.0	38173.1
47	1814.5	2192.8	3956.4	2916.2	2666.2	3028.7	4367.5	8433.5	5395.6	2160.1	1451.2	1753.4	40136.1
48	1735.6	2163.6	2557.0	3266.9	2428.8	2806.5	4377.7	9506.9	10089.5	2657.4	1687.7	1740.8	45018.5
49	1547.9	1775.9	2037.2	2014.9	1975.8	4248.8	5369.2	9308.1	4842.0	1807.0	1318.4	1598.8	37844.1
50	1436.0	1800.5	2144.2	2371.8	2403.9	3956.8	5674.5	6317.9	8200.5	3938.1	1786.9	1822.8	41853.9
51	1869.0	2812.5	3090.1	3154.3	3412.6	3627.4	5907.4	8146.1	5667.8	2635.9	1634.0	1786.2	43743.2
52	1793.6	2074.7	2843.4	2803.8	2975.6	3279.3	8577.2	9434.5	6728.1	2597.6	1554.3	1723.8	46386.0
53	1426.3	1585.5	1985.7	3011.6	2630.1	2372.9	3247.4	5557.2	9012.5	3509.1	1635.5	1717.8	37691.7
54	1406.1	1714.3	2136.8	2132.3	2467.6	2772.2	4738.5	6663.0	5583.4	3076.7	1589.1	1722.9	36002.8
55	1387.4	1663.6	1914.9	1739.2	1273.8	1662.9	2736.1	5090.5	6769.3	3156.6	1468.0	1625.6	30487.9
56	1478.8	1999.3	3468.4	3808.2	2860.1	4903.9	7402.1	9931.2	7783.7	2622.5	1661.1	1843.9	49763.3
57	1618.8	1941.4	2632.5	2309.6	2587.8	4116.8	5266.9	10420.8	7157.3	2233.3	1480.1	1730.7	43496.0
58	1562.1	1692.5	2367.7	2528.3	3110.7	2486.3	4595.2	9268.7	6116.4	2060.4	1464.8	1743.4	38996.3
59	1483.9	2244.6	3021.6	3565.1	2292.9	2680.5	3749.2	5805.4	6876.7	2251.8	1446.5	2012.4	37430.7
60	2581.6	2716.4	2274.6	2169.5	1965.1	3160.5	4512.6	5338.8	6091.9	1789.6	1417.3	1642.8	35660.5
61	1293.3	1695.5	1835.0	1712.4	2447.2	2713.5	2773.3	5489.3	5712.8	1497.2	1046.8	1438.2	29654.5
62	1349.8	1621.9	1837.5	1923.7	1968.5	2213.5	5012.5	5972.7	5994.5	2088.3	1452.5	1621.8	33057.2
63	2044.0	2307.3	2734.8	2059.6	2940.2	2246.0	3171.3	5799.4	6356.3	2332.8	1411.7	1768.0	35171.5
64	1393.4	1674.8	2004.3	1788.9	1716.8	2059.0	4194.9	6231.1	9601.3	3259.8	1737.5	1938.5	37600.3
65	1574.5	1827.2	4226.9	4697.5	4308.0	4443.3	6797.5	8117.2	9530.5	3581.6	2036.6	2334.9	53475.5
66	1768.9	2154.3	2357.1	2275.8	1472.0	1931.0	3126.5	4746.9	3320.7	1490.9	1116.8	1480.2	27241.1
67	1260.6	1631.0	1971.1	2324.6	1787.2	1816.7	2923.8	6185.7	8706.2	2849.8	1414.2	1713.2	34584.3
68	1675.3	1991.7	2407.0	2297.0	2772.9	2553.9	2255.6	5188.5	5403.3	1913.3	1624.5	1975.8	32058.8
69	1878.5	2487.4	2534.3	3853.1	2929.5	3814.9	6279.7	8621.9	5309.5	2111.5	1426.1	1709.7	42956.1
70	1586.3	1676.8	2090.4	3309.1	2964.7	2518.8	2726.5	6552.8	8936.9	3032.4	1605.0	2064.2	39064.0
71	1739.6	2139.7	2878.7	4580.1	4400.4	4485.9	6086.9	10807.3	10490.2	4284.8	1919.8	2141.1	55954.6
72	1923.2	2360.2	2636.0	3348.1	3841.1	8677.7	5257.3	8253.1	110997.1	3155.1	1668.0	1867.7	53984.6
73	1733.5	2084.5	2574.1	2612.6	1842.4	1801.7	2027.6	4392.3	3406.5	1538.7	1102.6	1447.5	26564.1
74	1395.2	2605.8	3211.5	4971.0	3313.3	5069.6	7613.8	7896.3	313248.1	4425.2	1946.2	1828.3	57524.1
75	1608.8	2052.1	2284.4	2356.5	2149.7	3408.0	4461.6	6987.7	710368.4	5277.5	2109.1	2011.6	45075.3
76	2114.0	2526.1	4172.0	3757.4	2960.4	3800.7	6479.5	9576.8	7109.6	2997.5	2016.9	2065.1	49576.2
77	1577.6	1939.1	2166.0	1760.3	1384.4	1271.5	1771.2	2780.0	2207.6	1129.1	938.0	1196.7	20121.5
78	1278.1	1749.6	3214.1	3351.3	1943.1	3274.8	4190.3	6695.2	6842.3	3512.3	1703.3	2045.5	39800.1
79	1437.0	1597.8	2019.7	2328.7	1907.8	2915.0	3250.3	6442.5	4152.6	1678.7	1279.5	1517.9	30527.6
80	1243.5	1525.9	1877.2	1971.8	2060.9	2138.3	3935.4	6493.0	6232.8	2523.0	1458.1	1926.6	33386.4
81	1474.7	1843.3	2788.8	2661.8	2571.9	2160.6	3045.5	5330.2	6561.3	2219.2	1354.8	1558.3	33570.7
82	1422.6	1725.9	2442.1	2506.7	4498.7	6042.6	5847.2	8621.0	9339.9	5104.5	1975.8	2051.4	51578.4
83	2171.9	2412.5	2992.3	3504.5	3430.1	6053.1	4923.1	7364.4	7922.0	3773.7	2047.1	1984.8	48579.5
84	1924.2	2786.8	2911.7	3908.8	2809.7	5500.3	6832.5	9225.0	11312.8	4005.7	2150.8	2162.6	55530.7
85	1878.0	2513.3	2653.6	2697.9	2311.7	2497.2	5198.9	6291.1	4261.4	1561.8	1371.0	1994.6	35230.4
86	1784.4	2078.1	2021.2	2561.3	4066.7	7820.1	5889.2	6921.7	7197.9	2094.4	1427.4	2027.8	45890.2
87	1840.1	2257.1	2368.8	2168.3	1767.7	2235.0	2776.8	3903.5	1987.6	1309.3	1026.2	1272.1	24912.4
88	1160.2	1491.6	1731.2	1629.2	1398.8	1753.9	2760.3	4321.2	3016.5	1302.4	906.2	1064.2	22535.7
89	1078.3	1583.1	1620.2	1543.5	1316.3	3460.5	5146.0	5586.7	4635.5	1712.7	1336.6	1623.0	30642.4
AVG	1539.6	1951.8	2412.9	2580.9	2292.1	3138.8	4419.5	6714.3	6219.8	2446.7	1447.4	1692.9	36856.6

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