SALMON RIVER BASIN

13297330 THOMPSON CREEK NEAR CLAYTON, ID

LOCATION.--Lat 44°16'01", long 114°30'48", in NE¼NE¼SE¼ sec.24, T.11 N., R.16 E., Custer County, Hydrologic Unit 17060201, on right bank 1.2 mi (1.9 km) upstream from mouth, 2.2 mi (3.5 km) below Pat Hughes Creek, and 5.7 mi (9.2 km) west of Clayton.

DRAINAGE AREA.--29.1 mi^2 (75.4 km^2).

PERIOD OF RECORD.--November 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is about 5,700 ft (1,737 m), from topographic map. Prior to June 13, 1982, recording gage at site 200 ft (60.96 m) upstream at datum 2 ft (0.61 m) higher.

REMARKS.--Records good except June to August, which are fair.

AVERAGE DISCHARGE.--10 years, 18.8 ft^3/s (0.532 m^3/s), 8.77 in./yr (223 mm/yr), 13,620 acre-ft/yr (16.8 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 332 ft^3/s (9.40 m^3/s) June 16, 1974, gage height, 5.61 ft (1.710 m), from floodmark; minimum, 1.0 ft^3/s (0.028 m^3/s) Mar. 16, 1980, gage height, 3.73 ft (1.137 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 80 ft^3/s (2.27 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
May 3	2145	158	4.47	5.15	1.570	June 16	unknown	230	6.51	unknown	unknown
May 25	2130	*329	9.32	5.74	1.750						

Minimum discharge, 1.4 ft^3/s (0.040 m^3/s) Nov. 26, gage height 3.8 ft (1.158 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Jan. 6-10, Feb. 4-7;
shifting-control method used May 14 to June 13)

Oct. 1 to June 13				Sept. 2-30	
3.7	1.0	4.4	34	2.1	3.5
3.8	2.5	4.6	58	2.2	7.1
3.9	4.8	4.8	92	2.3	13
4.0	7.9	5.0	136		
4.2	17	5.5	289		

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.6	4.6	4.1	4.3	8.2	12	93	82	115	17	7.8
2	6.0	4.3	4.6	3.4	4.3	7.8	12	117	81	100	16	7.4
3	6.0	4.3	4.1	4.1	3.1	7.5	11	140	95	97	15	6.7
4	5.7	4.3	4.1	4.1	2.8	7.2	11	134	94	83	14	6.7
5	5.7	4.3	3.8	3.6	2.3	7.2	10	91	102	70	14	6.7
6	5.7	4.3	4.1	3.6	2.9	7.2	11	80	98	62	13	6.7
7	6.0	4.1	4.1	3.2	3.8	7.5	11	83	88	60	13	6.7
8	6.9	4.1	4.1	2.7	3.8	7.2	11	82	85	56	13	6.7
9	6.0	3.8	4.1	3.3	3.8	7.2	10	71	74	54	13	6.6
10	6.0	3.6	4.1	4.0	3.8	7.8	10	63	75	49	13	6.3
11	6.0	4.1	3.8	4.1	3.8	8.2	14	55	96	46	12	6.3
12	6.6	3.6	2.6	4.1	3.6	8.6	23	53	106	44	12	6.4
13	6.6	3.6	4.3	4.3	3.6	8.6	24	59	126	43	11	6.7
14	6.0	4.1	4.1	4.3	4.3	8.6	24	73	140	43	11	6.7
15	5.7	4.3	4.1	4.3	4.6	8.6	23	86	156	38	10	6.7
16	5.4	4.3	3.8	4.3	4.8	8.6	22	102	200	36	9.9	6.7
17	5.4	5.1	2.3	4.3	4.6	8.9	20	102	185	33	9.4	6.7
18	5.4	5.4	3.4	4.3	4.3	8.9	19	98	200	30	9.3	6.7
19	5.4	4.3	4.3	3.4	4.8	8.6	17	141	185	29	9.5	6.7
20	5.4	4.8	6.3	3.4	5.7	8.2	17	129	180	27	9.3	7.1
21	5.4	4.8	5.7	4.1	7.8	8.2	16	133	175	26	9.2	7.5
22	5.1	5.4	3.6	4.3	15	8.2	18	194	170	23	9.0	7.1
23	4.6	5.1	2.4	4.3	14	8.2	29	243	170	23	8.8	7.1
24	4.6	4.8	3.6	4.3	11	8.2	47	259	165	23	8.4	7.1
25	4.6	3.8	4.6	3.6	11	9.7	62	283	160	23	8.3	7.1
26	4.8	1.7	4.8	4.3	11	12	73	274	150	21	8.2	7.1
27	4.8	2.4	4.3	4.6	9.7	12	76	203	145	22	8.0	7.4
28	4.6	2.9	3.8	3.8	8.6	12	88	129	140	22	7.8	7.6
29	4.6	2.9	3.6	2.9	---	13	85	123	125	24	7.7	7.6
30	4.6	3.8	4.3	4.3	---	13	89	104	120	20	8.7	7.6
31	4.6	---	3.8	4.6	---	12	---	88	---	19	8.2	---
TOTAL	170.2	122.9	125.2	122	167.1	277.1	895	3885	3968	1361	336.7	208.2
MEAN	5.49	4.10	4.04	3.94	5.97	8.94	29.8	125	132	43.9	10.9	6.94
MAX	6.9	5.4	6.3	4.6	15	13	89	283	200	115	17	7.8
MIN	4.6	1.7	2.3	2.7	2.3	7.2	10	53	74	19	7.7	6.3
CFSM	.19	.14	.14	.14	.21	.31	1.02	4.30	4.54	1.51	.38	.24
IN.	.22	.16	.16	.16	.21	.35	1.14	4.97	5.07	1.74	.43	.27
AC-FT	338	244	248	242	331	550	1780	7710	7870	2700	668	413

CAL YR 1981	TOTAL	4900.8	MEAN 13.4	MAX 126	MIN 1.7	CFSM .46	IN 6.26	AC-FT 9720
WTR YR 1982	TOTAL	11638.4	MEAN 31.9	MAX 283	MIN 1.7	CFSM 1.10	IN 14.88	AC-FT 23080

NOTE.--No gage-height record June 14 to Sept. 2.