SALMON RIVER BASIN

13296500 SALMON RIVER BELOW YANKEE FORK, NEAR CLAYTON, ID

LOCATION.--Lat 44°16'06", long 114°43'55", in sec.20, T.11 N., R.15 E. (unsurveyed), Custer County, Challis National Forest, on left bank 700 ft downstream from Yankee Fork, 18 mi upstream from Clayton, and at mile 366.9.

DRAINAGE AREA.--802 mi^2. Mean altitude, 7,790 ft.

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for some periods, published in WSP 1317. Operated as high-flow station only 1972-76 (discharge for period October 1976 to April 1977 was estimated).

REVISED RECORDS.--WSP 1347: 1931. WSP 1567: Drainage area. WDR ID-77-1: 1974-76 (M).

GAGE.--Water-stage recorder. Altitude of gage is 5,900 ft, by barometer. Oct. 3, 1926, to Nov. 5, 1934, at site 200 ft downstream at approximately present datum. Prior to Oct. 3, 1926, nonrecording gage at site 200 ft downstream at datum approximately 1.5 ft higher.

REMARKS.--Records good. Diversions above station for irrigation of about 4,400 acres, 1966 determination.

AVERAGE DISCHARGE.--58 years, 1,009 ft^3/s, 17.09 in./yr, 731,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s June 17, 1974, gage height, 11.86 ft; minimum, 160 ft^3/s, estimated, Nov. 25-30, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 30	0630	*7120	9.66	July 2	1515	4470	7.45

Minimum discharge, 379 ft^3/s Feb. 1, Apr. 5, gage height, 1.82 ft.

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Stage-discharge relation affected by ice Dec. 8-14, Dec. 28 to Jan. 4, Feb. 2-5)

1.5	255	5.0	2180
2.0	426	7.0	4000
3.0	870	9.0	6210
4.0	1450	11.0	8900

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	785	745	598	430	433	489	493	1360	6450	3480	1220	795
2	770	670	585	460	420	533	525	1460	6160	4340	1190	800
3	760	689	589	500	400	537	500	1580	5860	3940	1200	770
4	805	707	589	570	385	529	481	1710	5900	3370	1140	736
5	805	702	563	616	410	525	466	1920	5840	3050	1140	721
6	755	698	598	657	448	516	474	1740	5660	3080	1060	693
7	780	625	576	634	485	504	489	1680	5520	3210	1010	680
8	770	675	460	621	481	500	481	1700	5630	3260	1010	661
9	736	675	435	598	493	500	485	1500	5820	3170	1080	648
10	711	630	450	594	493	521	481	1380	5990	3550	1150	639
11	711	643	455	554	485	558	463	1270	6400	2980	1210	643
12	707	537	480	537	493	580	470	1180	6190	2650	1120	634
13	698	630	520	533	500	594	463	1200	5300	2480	1020	648
14	693	504	520	529	493	616	463	1240	4580	2500	974	643
15	689	521	571	512	485	571	463	1310	4300	2550	1030	630
16	684	576	567	521	493	529	474	1220	4250	2300	1110	630
17	675	616	563	554	481	537	504	1210	4200	2090	974	607
18	661	639	563	542	508	537	554	1470	4330	1920	910	603
19	625	639	576	529	508	529	580	1620	4230	1800	920	643
20	634	630	571	525	485	481	666	1930	3850	1730	1190	630
21	657	625	598	516	497	500	755	2480	3510	1650	1060	625
22	675	558	598	512	493	525	845	2800	3220	1590	1040	621
23	815	497	603	516	485	500	1030	3130	3190	1700	1110	616
24	845	521	558	512	481	481	1380	3670	3540	1640	1000	616
25	810	542	500	508	481	504	1230	4310	3680	1580	963	607
26	991	554	550	508	489	481	1070	4960	3570	1510	910	603
27	947	589	558	508	466	489	980	5600	3890	1430	865	639
28	805	648	450	500	489	474	974	5980	3920	1360	830	630
29	815	616	450	455	---	481	1030	6590	3690	1300	800	625
30	835	603	455	512	---	516	1210	7040	3530	1250	770	785
31	800	---	430	478	---	533	---	6990	---	1230	780	---
TOTAL	23449	18504	16579	16541	13260	16170	20479	83230	142200	73690	31786	19821
MEAN	756	617	535	534	474	522	683	2685	4740	2377	1025	661
MAX	991	745	603	657	508	616	1380	7040	6450	4340	1220	800
MIN	625	497	430	430	385	474	463	1180	3190	1230	770	603
CFSM	.94	.77	.67	.67	.59	.65	.85	3.35	5.91	2.96	1.28	.82
IN.	1.09	.86	.77	.77	.62	.75	.95	3.86	6.60	3.42	1.47	.92
AC-FT	46510	36700	32880	32810	26300	32070	40620	165100	282100	146200	63050	39310

CAL YR 1982 TOTAL 538798 MEAN 1476 MAX 7790 MIN 300 CFSM 1.84 IN 24.99 AC-FT 1069000
WTR YR 1983 TOTAL 475709 MEAN 1303 MAX 7040 MIN 385 CFSM 1.63 IN 22.07 AC-FT 943600