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 (213 m) downstream from Yankee Fork, 18 mi (29 km) upstream from Clayton, and at mile 366.9 (590.3 km).

DRAINAGE AREA.--802 mi^2 (2,077 km^2) . Mean altitude, 7,790 ft (2,374 m).

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 (1,798 m), by barometer. Oct. 3, 1926, to Nov. 5, 1934, at site 200 ft (61 m) downstream at approximately present datum. Prior to Oct. 3, 1926, nonrecording gage at site 200 ft (61 m) downstream at datum approximately 1.5 ft (0.5 m) higher.

REMARKS.--Records good. Diversions above station for irrigation of about 4,400 acres (1,780 hm^2) 1966 determination.

AVERAGE DISCHARGE.--57 years, 1,004 ft^3/s (28.43 m^3/s), 17.00 in./yr (432 mm/yr), 727,400 acre-ft/yr (897 hm^3/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) June 17, 1974, gage height, 11.86 ft (3.615 m); minimum, 160 ft^3/s (4.53 m^3/s), estimated, Nov. 25-30, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,350 ft^3/s (66.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 27	unknown	6200	176	unknown		June 20	2400	*7950	225	*10.19	3.106

Minimum discharge, 265 ft^3/s (7.50 m^3/s) Feb. 12, gage height, 1.56 ft (0.475 m).

Rating table (gage height, in feet, and discharge, in cubic feet per second)
(Shifting-control method used June 15-July 2; stage-discharge relation affected by ice Nov. 30, Jan. 3, 6-10, Feb. 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 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	459	455	463	470	400	607	485	1560	3260	6160	1730	758
2	455	448	478	448	407	607	455	1950	3290	5650	1640	738
3	466	444	444	395	397	567	489	2290	3620	5580	1540	726
4	455	440	433	437	340	554	485	2520	3960	5270	1450	717
5	444	440	440	444	300	533	455	2210	3720	4760	1370	702
6	448	433	474	390	340	497	474	2170	3400	4210	1310	686
7	504	426	470	370	372	516	455	2290	3190	3960	1260	680
8	542	415	466	360	368	497	448	2330	3000	3890	1250	713
9	493	400	455	405	379	508	455	2180	2870	3660	1300	704
10	500	393	478	420	361	497	444	2070	2950	3490	1250	687
11	542	426	463	426	365	508	598	1980	3340	3430	1190	677
12	558	437	386	440	379	489	810	2000	3970	3440	1150	702
13	529	529	463	440	400	489	795	2070	4570	3550	1100	732
14	508	603	474	407	429	493	780	2250	5110	3800	1030	740
15	489	665	485	422	444	481	702	2380	5600	3680	1000	746
16	485	706	478	418	474	444	634	2500	6320	3350	973	746
17	481	780	400	422	470	466	612	2720	6930	3030	927	732
18	470	721	397	426	455	470	598	3660	7410	2790	908	726
19	466	567	500	418	466	463	550	4040	7500	2670	920	720
20	466	576	684	393	489	455	533	3530	7790	2610	908	816
21	459	571	630	397	603	437	542	3540	7790	2550	890	771
22	448	675	567	426	770	448	580	3830	7610	2500	874	727
23	451	558	474	429	716	429	698	4060	7490	2410	840	704
24	455	580	463	426	648	448	900	4330	7300	2340	825	696
25	448	542	516	407	652	444	1040	4700	7100	2300	811	717
26	470	440	497	426	670	474	1120	5250	6640	2170	798	795
27	481	470	489	426	666	478	1190	6000	6660	2070	780	798
28	466	437	478	411	607	474	1350	4630	6930	2120	767	755
29	500	404	451	386	---	474	1330	4030	7090	2120	760	808
30	470	415	478	411	---	451	1390	3510	6600	1930	858	806
31	459	---	448	411	---	474	---	3290	---	1810	809	---
TOTAL	14867	15396	14822	12907	13367	15172	21397	95870	163010	103300	33218	22025
MEAN	480	513	478	416	477	489	713	3093	5434	3332	1072	734
MAX	558	780	684	470	770	607	1390	6000	7790	6160	1730	816
MIN	444	393	386	360	300	429	444	1560	2870	1810	760	677
CFSM	.60	.64	.60	.52	.60	.61	.89	3.86	6.78	4.16	1.34	.92
IN.	.69	.71	.69	.60	.62	.70	.99	4.45	7.56	4.79	1.54	1.02
AC-FT	29490	30540	29400	25600	26510	30090	42440	190200	323300	204900	65890	43690

CAL YR 1981	TOTAL	323792	MEAN	887	MAX	5810	MIN 319	CFSM 1.11	IN 15.02	AC-FT	642200
WTR YR 1982	TOTAL	525351	MEAN	1439	MAX	7790	MIN 300	CFSM 1.79	IN 24.37	AC-FT	1042000