

LETHA FLOW ANALYSISSEP 13, 1994

IN THE 27 DAYS SINCE THE FISH RELEASE ENDED, THE AVERAGE FLOW PASSING THE SEVEN MILE SLOUGH DIVERSION AND END OF SLOUGH HAS BEEN 139 CFS.

THIS CAN BE COMPARED TO THE 50 CFS WHICH WAS ADOPTED AS LETHA OPERATIONAL ON AUGUST 1.

TOTAL STORED WATER PASSING LETHA CHARGED TO WDG5 IS 9637.8 AF. A TOTAL OF 10,487.0 AF WAS SET ASIDE FOR THIS OPERATIONAL LOSS WHICH LEAVES ONLY 850 AF REMAINING. OVER THE PAST WEEK ABOUT 250 AF/DAY HAS BEEN PASSING LETHA SO AT THIS RATE THE SUPPLY WILL BE EXHAUSTED IN 4 DAYS.

I SUGGEST EITHER 1) A MORE AGGRESSIVE EFFORT TO LOWER THE FLOW AT LETHA, OR 2) INCREASE THE 50 CFS OPERATIONAL FLOW AT LETHA TO 135 CFS, OR 3) A COMBINATION OF BOTH.

BOB SUTTER

14-SFF

13250300 PAYETTE RIVER NEAR LETHA
 STORED FLOW, CUBIC FEET/SECOND , IRRIGATION YEAR NOVEMBER 1993 TO OCTOBER 1994

DAY	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
1	302	36	110	102	79	81	93	-452	148	813	34	---
2	318	145	180	-0.3	-81	97	67	-408	133	926	134	---
3	365	55	170	109	-47	71	0.0	-302	264	840	134	---
4	393	37	95	135	32	61	0.0	-298	506	791	69	---
5	307	39	69	107	110	113	2.9	-269	537	757	63	---
6	151	86	65	137	64	43	5.2	-257	597	729	83	---
7	26	63	128	119	47	-11	13	-244	1029	461	102	---
8	2.6	22	12	134	-0.8	63	-3.3	-190	1189	327	120	---
9	7.3	69	24	108	-0.2	67	169	-266	1110	300	126	---
10	-15	76	18	22	9.5	-4.6	138	-186	1042	240	157	---
11	-107	128	83	79	37	16	87	-40	1000	287	143	---
12	-164	52	70	66	51	-2.3	80	0.0	958	312	110	---
13	-133	-54	-5.4	62	71	22	4.4	179	925	243	126	---
14	-119	46	94	108	22	14	61	305	922	206	---	---
15	-98	99	98	107	29	-25	68	415	906	163	---	---
16	17	23	117	138	15	1.9	-6.1	191	899	183	---	---
17	87	62	186	99	42	0.0	27	21	889	155	---	---
18	-5.2	124	85	105	103	278	-8.6	102	880	136	---	---
19	-64	66	39	187	86	125	107	140	839	128	---	---
20	-43	187	39	86	41	57	175	179	818	143	---	---
21	-17	172	41	39	62	27	39	112	828	114	---	---
22	-91	79	95	-25	36	71	44	68	841	97	---	---
23	-51	67	143	44	24	266	2.3	28	877	0.0	---	---
24	-47	20	86	56	67	442	4.1	15	855	144	---	---
25	-53	158	57	130	40	-213	-30	0.0	824	108	---	---
26	104	142	161	172	34	-242	-93	0.0	849	98	---	---
27	220	47	78	210	33	-70	-16	47	770	41	---	---
28	281	124	71	205	31	238	-68	54	711	23	---	---
29	57	171	38	---	35	272	175	97	667	11	---	---
30	-121	112	21	---	14	106	136	160	693	0.0	---	---
31	---	176	26	---	56	---	-68	---	703	10	---	---
TOTAL	1510	2629	2490	2839	1142	1962	1197	-778	24209	8786	1401	---
MEAN	50	84	80	101	37	65	39	-26	781	283	108	---
MAX	393	176	186	210	110	442	175	415	1189	926	157	---
MIN	-164	-54	-5.4	-25	-81	-242	-93	-452	133	0.0	34	---
AC-FT	2996	5276	4940	5632	2264	3892	2374	-1544	48019	17426	2779	---

IRRIGATION YEAR 1994 TOTAL 47387 MEAN 130 AC-FT 93992

TOTAL

WDG5 AF 4141.1 557.4 21104 2778.9

9637.8

WATER DISTRICT 65 - PAYETTE RIVER FLOW ACCOUNTING - AUG 31, 1994

1-SEP-94

REACH FLOWS IN CFS	ACTUAL DATE	NATURAL FLOW	ACTUAL FLOW	REMAINING NAT FLOW	POWER FLOW	STORED FLOW	RESERVOIR EVAP	NATURAL FLOW DIV	TOTAL RCH DIV	REACH GAIN	LAST RIGHT
1 SOUTH FORK AT LOHMAN	AUG 29	247.	247.	247.	0.	0.	0.	0.	0.	247.	18940401
2 DEADWOOD BLW DEADWOOD	AUG 29	40.	51.	40.	0.	11.	16.	0.	0.	40.	18940401
3 PAYETTE NR BANKS	* AUG 30	383.	394.	383.	0.	11.	0.	0.	0.	96.	18940401
11 UPPER NORTH FORK	* AUG 28	0.	20.	0.	0.	20.	0.	0.	0.	0.	18940401
4 NORTH FORK AT MCCALL	AUG 28	-21.	77.	-21.	0.	99.	0.	0.	0.	-21.	18940401
5 AT MCCALL TO CASCADE	AUG 29	-80.	1602.	-80.	0.	1682.	166.	0.	0.	-59.	18940401
6 N FORK CASCADE TO BANKS	* AUG 30	-43.	1639.	-43.	0.	1682.	0.	0.	0.	37.	18940401
7 BANKS TO HORSESHOE BEND	AUG 30	350.	2039.	350.	0.	1689.	0.	0.	0.	10.	18940401
8 HORSESHOE BEND TO EMMETT	AUG 30	279.	598.	242.	0.	356.	0.	0.	4.	-71.	18940401
9 EMMETT TO MID SLOUGH	* AUG 30	526.	164.	152.	0.	12.	0.	337.	681.	247.	18940401
13 COMBINED WASTE	AUG 30	100.	100.	100.	0.	0.	0.	0.	0.	100.	18940401
12 BELOW 7 MILE SLOUGH	* AUG 30	626.	27.	0.	0.	0.	0.	225.	237.	0.	18940401
10 LETHA TO PAYETTE	AUG 31	1615.	448.	487.	0.	-39.	0.	529.	569.	989.	19910530
TOTALS			1128.	2851.	1615.						

* - INDICATES FLOW ESTIMATED, NOT MEASURED

RESERVOIR	PREV CONT (AF)	CURR CONT (AF)	CHNG CONT (CFS)	ACCR STOR (CFS)	TOTL STOR (AF)	TOTL EV (AF)	PRIORITY	RESERVOIR	RIGHT (AF)	STORED (AF)
1 DEADWOOD	53097.0	53047.0	-25.2	0.0	161900.0	4811.9	1	PAYETTE	27750.0	27750.0
2 UPPER LAKES	3970.0	3930.0	-20.2	0.0	6500.0	0.0	2	DEADWOOD	161900.0	161900.0
3 PAYETTE	26950.0	26800.0	-75.6	0.0	27750.0	0.0	3	UPPER LAKES	2400.0	2400.0
4 CASCADE	345933.0	342467.0	-1747.4	0.0	586964.5	44538.9	4	UPPER LAKES	2600.0	2600.0
5 BLACK CANYON	30423.0	30445.0	11.1	0.0	0.0	2550.3	5	UPPER LAKES	1300.0	1300.0
TOTAL	460373.0	456689.0	-1857.3	0.0	783114.5	52001.2	7	UPPER LAKES	653190.0	586964.5
TOTAL					849340.0				783114.5	

CHANGE IN STORAGE USED ABV LETHA PASSING LETHA ABV LETHA UNACCT STORED
 YEAR-TO-DATE AF -79713.0 238419.6 76515.8 672101.4 37945.0
 7 MILE SLOUGH AT HEAD CFS - 243. AT END CFS - 30.
 COMBINED WASTE TO 7 MILE SLOUGH CFS - 100.
 UPPER 7 MILE COEF - 0.86 LOWER 7 MI COEF - 0.92

DIVERSION	CFS	CFS	AF	AF	DIVERSION	CFS	CFS	AF	AF	DIVERSION	CFS	CFS	AF	AF
	DIVN	STOR	USED	RMNG		DIVN	STOR	USED	RMNG		DIVN	STOR	USED	RMNG
1 S DOBSON	1	1	191	-191	31 CURTIIS-MCCONNELL	1	1	191	137	61 NOBLE	163	0	0	10464
2 E K ALLEN	0	0	22	-22	32 D HEFFNER	1	1	158	-158	62 ROSEBURY	14	0	34	63
3 DBL DIAMOND #1	1	1	119	-119	33 R HUNTER	0	0	60	291	63 STEWART	20	0	0	0
4 HEFFNER	1	1	103	-103	34 MACGREGOR #4	1	1	158	94	64 NICHOLS	6	0	266	122
5 DOBSON-OLIVER	1	1	157	-157	35 MACGREGOR #3	1	1	131	65	65 PULLEY	8	0	1063	-93
6 J HASBROUCK	0	0	22	-22	36 MACGREGOR #2	1	1	147	86	66 PULLEY PUMP	1	0	75	22
7 D & L REAY	0	0	16	2	37 MACGREGOR #1	0	0	84	60	67 RASMUSSEN	22	0	37	60
8 DRAKE #1	0	0	47	-47	38 EMMETT IRR DIST	328	397	41980	28297	68 COOPER	4	0	0	0
9 DRAKE #2	0	0	34	-34	39 SS EMMETT IRR (1)	86	0	0	0	69 UPPER ACCORD	8	0	11	-11
10 DBL DIAMOND #2	1	1	194	-194	40 BLACK CANYON IRR	912	912	165397	43496	70 ACCORD PUMP	0	0	0	0
11 FRY & SONS	1	1	174	-174	41 LAST CHANCE	115	14	1128	-1128	71 LOWER ACCORD	20	2	419	-419
12 BOISE CASCADE P	2	2	281	-281	42 FOWLER	0	0	37	-37	72 NESBITT-MCFARLAND	20	9	4277	-4277
13 CITY OF HS BEND	2	2	259	-259	43 HODGINS	0	0	52	-52	73 BARKER	3	0	0	0
14 DBL DIAMOND #3	1	1	164	-164	44 BROWN #1	0	0	34	-34	74 WOOKEY-BURT	2	0	0	0
15 J FRY	0	0	37	-37	45 BROWN #2	0	0	34	-34	75 PENCE	4	0	0	0
16 C COOPER	0	0	17	-17	46 FARMERS COOP	397	294	19701	13354	76 LOWER PAYETTE	333	6	441	-441
17 D SHOEMAKER	0	0	33	89	47 NEBEKER-STOKELY	0	0	62	-62	77 EAGLE ISL FARMS	30	0	71	-71
18 G BROWN	0	0	17	-17	48 GILL SLOUGH	1	0	0	0	78 JOHNSON-HIGBY	49	23	4165	-4165
19 MONTOUR FARMERS	20	0	154	940	49 SMITH	13	11	1311	0	79 SIMPLOT	50	0	0	0
20 B JENKINS SOUTH	1	1	131	-131	50 ENTERPRISE	55	0	25	779	80 FISH AND GAME	0	0	0	0
21 E GATFIELD	1	1	164	960	51 BILLBREY	19	0	148	-148	81 SHELTON	0	0	0	0
22 L MCCONNELL	1	1	131	-131	52 ROGERS	0	0	25	-25	82 B MAY	3	0	0	0
23 B JENKINS NORTH	0	0	49	-49	53 REED	36	0	274	-274	83 FOLLES	0	0	0	0
24 W SHOEBEL	0	0	49	-49	54 KESGARD-TSCHUDY	5	0	11	38	84 MOGENSEN	1	0	0	0
25 MCDONOUGH-NEWELL	1	1	68	-68	55 O'TURLEY	8	0	4	20	85 JACKSON	1	0	0	0
26 M CANADAY	1	1	191	236	56 SEITZ	23	2047	-326	86 DAVIS	1	0	0	0	
27 J SAAD	0	0	17	-17	57 WOODS	4	4	109	85	87 SWANSON	1	0	0	0
28 H GATFIELD	0	0	191	365	58 PAYETTE R RANCH	3	3	103	-103	88 WASHOE	0	0	0	0
29 H FROST	0	0	12	-12	59 399 PUMPS (2)	0	0	0	0		0	0	778	-778
30 F CHARTERS	0	0	17	-17	60 PATTON-RIGGS	3	3	475	301		0	0	0	0

(1) STORAGE USE COMBINED WITH NS EMMETT

(2) STORAGE USE COMBINED WITH SS BLACK CANYON

BLACK CANYON DIVERSION August 30 = 912 CFS
(August 31 PAYETTE TIME)

LETTA REMAINING STORAGE = 292 AF

$$\frac{292}{69} = 4 \text{ MORE DAYS}$$