M:/TMT98/tmt2703.xls
SSARR= 3/27/98

CORPS OF ENGINEERS, NORTHWESTERN DIVISION - NORTH PACIFIC REGION
Reservoir Control Center
DWORSHAK, LOWER GRANITE, GRAND COULEE, McNARY
Weekly Average Summary

03/30/98
8:49 AM

Week Ending	DWR PE ft	DWR Flow kcfs	DWR Adj Q kcfs	DWR Adj PE ft	LWG Target kcfs	LWG Flow kcfs	LWG Adj Q kcfs	GCL PE ft	GCL Adj PE ft	MCN Target kcfs	MCN Flow kcfs	MCN DWR-Adj kcfs	MCN GCL-Adj kcfs	Week Ending
8-Mar-98	1526.7	1.3	1.3	1526.7		37.0	37.0	1254.1	1254.1		168.1	168.1	168.1	8-Mar-98
15-Mar-98	1529.4	1.3	1.3	1529.4		39.2	39.2	1255.5	1255.5		153.8	153.8	153.8	15-Mar-98
22-Mar-98	1533.7	1.4	1.4	1533.7		44.9	44.9	1256.7	1256.7		169.5	169.5	169.5	22-Mar-98
29-Mar-98	1543.0	1.8	1.3	1543.4		64.5	64.0	1257.4	1257.4		210.5	210.1	210.1	29-Mar-98
5-Apr-98	1547.0	1.3	1.3	1547.4		52.3	52.3	1262.0	1262.0		150.5	150.5	150.5	5-Apr-98
12-Apr-98	1551.6	1.3	1.3	1552.1		54.2	54.2	1267.1	1267.1		122.0	122.0	122.0	12-Apr-98
19-Apr-98	1559.2	1.3	14.0	1547.5	96	65.5	78.2	1271.1	1271.1		136.0	148.7	148.7	19-Apr-98
26-Apr-98	1568.9	1.3	14.0	1545.4	96	75.9	88.6	1270.4	1270.4	233	181.3	194.0	194.0	26-Apr-98
3-May-98	1581.9	1.3	5.0	1556.5	96	92.3	96.0	1271.0	1271.0	233	201.7	205.4	205.4	3-May-98
10-May-98	1594.3	1.3	1.3	1571.1	96	103.0	103.0	1273.2	1273.2	233	216.0	216.0	216.0	10-May-98
17-May-98	1600.0	7.9	1.3	1583.1	96	120.2	113.6	1275.5	1275.5	233	252.4	245.7	245.7	17-May-98
24-May-98	1600.0	13.5	1.3	1592.7	96	146.1	133.8	1277.7	1277.7	233	310.3	298.1	298.1	24-May-98
31-May-98	1600.0	9.5	1.3	1598.8	96	111.8	103.6	1280.0	1280.0	233	262.2	254.1	254.1	31-May-98
7-Jun-98	1600.0	7.5	6.0	1600.0	96	103.0	101.4	1282.3	1282.3	233	260.4	258.9	258.9	7-Jun-98
14-Jun-98	1600.0	6.4	14.0	1594.3	96	79.9	87.6	1284.7	1284.7	233	225.3	232.9	232.9	14-Jun-98
21-Jun-98	1600.0	4.4	14.0	1586.9	96	65.2	74.9	1287.0	1287.0	233	229.1	238.8	238.8	21-Jun-98
28-Jun-98	1600.0	3.6	5.6	1585.3	51	49.0	51.0	1289.3	1289.3	233	186.5	188.5	188.5	28-Jun-98
5-Jul-98	1594.5	10.9	12.3	1578.0	51	49.6	51.0	1289.2	1289.2	200	204.5	205.9	205.9	5-Jul-98
12-Jul-98	1585.0	14.0	14.0	1567.4	51	44.0	44.0	1288.1	1288.1	200	183.1	183.1	183.1	12-Jul-98
19-Jul-98	1574.4	14.0	14.0	1555.6	51	39.0	39.0	1286.9	1286.9	200	171.2	171.2	171.2	19-Jul-98
26-Jul-98	1562.7	14.0	14.0	1542.8	51	34.7	34.7	1285.8	1285.8	200	157.3	157.3	157.3	26-Jul-98

Weekly Notes:

1 Pool Elevation (PE) and Flow are actual values to date, then SSARR forecast values for the rest of the period. SSARR dated: 03/27/98
2 Libby is regulated to release 4.0 kcfs through May 21st, then pulse twice for sturgeon in May and June, then fill by end of July.
3 Arrow has been regulated to store 1.0 Maf above Treaty storage by the end of Mar, then release 20 kcfs Apr through Jun.
4 Hungry Horse has been regulated to meet Columbia Falls minimum flow requirement, fill by the end of June, and draft 10 feet by the end of July.
5 Grand Coulee reaches 1258 feet by 1 April, maintains 65 kcfs at Priest Rapids through 20 April, 1270 feet by April 30, draft 5 feet from full by Jul 31st
6 Brownlee is operated to be no higher than end of April Flood Control elevation.
7 In SSARR, Dworshak has been regulated to release 1.3 kcfs until it reaches Flood Control.
On TMT spreadsheet, Dworshak is regulated to augment Lower Granite flows up to 14 kcfs, then store once Lower Granite picks up.
8 Albeni Falls is regulated to be at 2056 feet by April 30th and 2062.5 feet by May 30th.

Volume Runoff Comparison:

	SSARR Apr-Jul	WSF Apr-Jul	MAR-98FINAL 1
LIB	5.0 kaf	4.6 kaf	
DWR	1.8 kaf	2.0 kaf	
LWG	18.2 kaf	19.1 kaf	
HGH	1.5 kaf	1.5 kaf	
GCL	44.6 kaf	46.8 kaf	
BRN	5.2 kaf	5.3 kaf	
TDA	70.63 kaf	72.2 kaf	

Seasonal Average Actual/Forecasted Flows:

LWG	4/10 - 6/20	94 kcfs
	6/21 - 7/31	42 kcfs
MCN	4/20 - 6/30	226 kcfs
	7/01 - 7/31	179 kcfs

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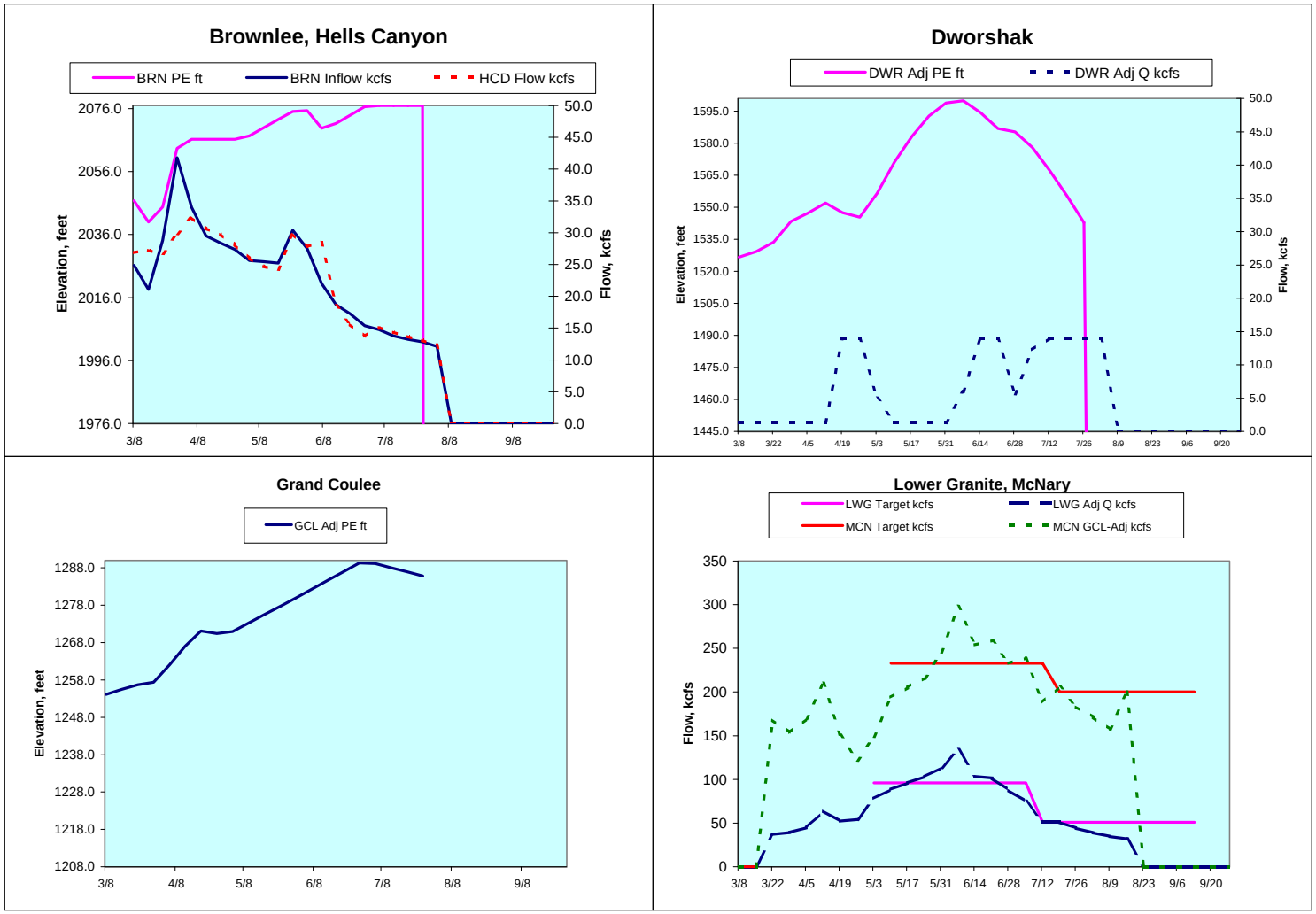
SSARR= 3/27/98 **Reservoir Control Center** 8:49 AM

ARROW, LIBBY, HUNGRY HORSE, ALBENI FALLS, BROWNLEE, HELLS CANYON, PRIEST RAPIDS, BONNEVILLE

Weekly Average Summary

Week Ending	ARDB PE ft	ARDB Flow kcfs	LIB PE ft	LIB Flow kcfs	HGH PE ft	HGH Flow kcfs	ALF PE ft	ALF Flow kcfs	BRN Inflow kcfs	BRN PE ft	HCD Flow kcfs	PRD GCL-Adj kcfs	BON GCL-Adj kcfs	Week Ending
8-Mar-98		62.0		5.4	3507.8	2.9	2055.6	11.2	24.9	2046.7	26.9	127.4	187.8	8-Mar-98
15-Mar-98		65.3		4.0	3506.3	2.9	2055.2	13.4	21.1	2040.0	27.2	116.9	173.5	15-Mar-98
22-Mar-98	1389.9	62.6	2390.9	4.0	3505.1	2.9	2055.7	12.1	28.8	2044.8	26.7	120.1	192.6	22-Mar-98
29-Mar-98	1387.0	47.7	2391.6	4.0	3507.2	0.7	2055.8	20.1	41.8	2063.5	29.9	138.0	234.4	29-Mar-98
5-Apr-98	1386.0	26.4	2391.7	4.0	3506.9	1.8	2055.6	16.7	34.0	2066.3	32.4	85.6	176.7	5-Apr-98
12-Apr-98	1386.0	20.0	2391.8	4.0	3507.1	1.2	2055.7	13.6	29.5	2066.3	30.7	65.3	145.4	12-Apr-98
19-Apr-98	1386.2	20.0	2392.0	4.0	3508.6	0.3	2055.8	15.1	28.4	2066.3	29.8	71.3	170.1	19-Apr-98
26-Apr-98	1386.8	20.0	2393.1	4.0	3511.4	0.2	2055.9	18.9	27.4	2066.3	28.2	105.2	214.7	26-Apr-98
3-May-98	1388.3	20.0	2395.8	4.0	3516.3	0.2	2056.6	20.8	25.6	2067.4	26.0	110.5	223.7	3-May-98
10-May-98	1390.4	20.0	2400.7	4.0	3523.4	0.2	2058.1	23.9	25.5	2070.0	24.7	115.7	230.9	10-May-98
17-May-98	1393.4	20.0	2407.0	4.0	3531.7	0.2	2059.6	31.0	25.2	2072.6	24.2	133.7	258.6	17-May-98
24-May-98	1398.8	20.0	2414.1	15.3	3541.7	0.2	2061.0	36.3	30.4	2075.2	29.8	160.5	311.2	24-May-98
31-May-98	1402.9	20.0	2418.1	17.5	3548.7	0.2	2062.5	25.3	27.5	2075.4	27.8	145.7	265.3	31-May-98
7-Jun-98	1408.0	20.0	2424.3	18.6	3553.3	3.4	2062.5	37.3	22.0	2069.8	28.5	153.1	268.1	7-Jun-98
14-Jun-98	1413.6	20.0	2432.3	10.0	3556.7	3.4	2062.5	31.1	18.7	2071.3	18.5	143.9	239.4	14-Jun-98
21-Jun-98	1418.4	20.0	2442.2	10.0	3559.2	3.4	2062.5	48.2	17.3	2074.0	15.6	155.9	246.1	21-Jun-98
28-Jun-98	1423.1	20.0	2448.4	10.0	3560.0	3.8	2062.5	39.5	15.4	2076.6	13.7	134.5	194.3	28-Jun-98
5-Jul-98	1427.7	26.4	2456.2	4.9	3558.4	6.1	2062.5	40.7	14.8	2077.0	15.1	151.2	211.3	5-Jul-98
12-Jul-98	1431.2	29.0	2459.0	11.7	3556.1	6.2	2062.5	31.3	13.8	2077.0	14.4	136.2	188.9	12-Jul-98
19-Jul-98	1434.6	29.0	2459.0	18.9	3553.9	5.9	2062.5	26.1	13.2	2077.0	13.7	130.0	177.5	19-Jul-98
26-Jul-98	1437.5	29.0	2459.0	14.4	3551.6	5.6	2062.5	20.3	12.8	2077.0	13.1	119.8	164.1	26-Jul-98


Brownlee, Hells Canyon
BRN PE ft
BRN Inflow kcfs
HCD Flow kcfs
Elevation, feet
Flow, kcfs
2076.0
2056.0
2036.0
2016.0
1996.0
1976.0
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
3/8
4/8
5/8
6/8
7/8
8/8
9/8
Dworshak
DWR Adj PE ft
DWR Adj Q kcfs
Elevation, feet
Flow, kcfs
1595.0
1580.0
1565.0
1550.0
1535.0
1520.0
1505.0
1490.0
1475.0
1460.0
1445.0
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
3/8
3/22
4/5
4/19
5/3
5/17
5/31
6/14
6/28
7/12
7/26
8/9
8/23
9/6
9/20
Grand Coulee
GCL Adj PE ft
Elevation, feet
1288.0
1278.0
1268.0
1258.0
1248.0
1238.0
1228.0
1218.0
1208.0
3/8
4/8
5/8
6/8
7/8
8/8
9/8
Lower Granite, McNary
LWG Target kcfs
LWG Adj Q kcfs
MCN Target kcfs
MCN GCL-Adj kcfs
Flow, kcfs
350
300
250
200
150
100
50
0
3/8
3/22
4/5
4/19
5/3
5/17
5/31
6/14
6/28
7/12
7/26
8/9
8/23
9/6
9/20