M:/TMT98/tmt2905.xls
SSARR= 5/29/98
FRIDAY RUN

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

06/01/98
11:13:36 AI

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	1543.2	1.9	1.9	1543.2		67.5	67.5	1257.1	1257.1		199.3	199.3	199.3	29-Mar-98
5-Apr-98	1549.2	1.3	1.3	1549.2		54.8	54.8	1262.3	1262.3		152.3	152.3	152.3	5-Apr-98
12-Apr-98	1555.8	1.3	1.3	1555.8		62.4	62.4	1270.0	1270.0		137.3	137.3	137.3	12-Apr-98
19-Apr-98	1560.6	1.3	1.3	1560.6	90	55.5	55.5	1273.1	1273.1		135.1	135.1	135.1	19-Apr-98
26-Apr-98	1561.0	9.9	9.9	1561.0	90	76.4	76.4	1275.4	1275.4	228	174.0	174.0	174.0	26-Apr-98
3-May-98	1567.6	6.7	6.7	1567.6	90	93.6	93.6	1279.5	1279.5	228	221.1	221.1	221.1	3-May-98
10-May-98	1583.0	1.3	1.3	1583.0	90	126.7	126.7	1281.0	1281.0	228	324.3	324.3	324.3	10-May-98
17-May-98	1593.4	1.3	1.3	1593.4	90	123.7	123.7	1281.7	1281.7	228	316.0	316.0	316.0	17-May-98
24-May-98	1597.5	8.5	8.5	1597.5	90	141.9	141.9	1284.1	1284.1	228	303.5	303.5	303.5	24-May-98
31-May-98	1600.0	12.0	12.0	1600.0	90	192.2	192.2	1284.8	1285.0	228	370.2	370.2	369.0	31-May-98
7-Jun-98	1599.6	11.1	11.1	1599.6	90	146.5	146.5	1284.4	1287.0	228	346.7	346.7	333.0	7-Jun-98
14-Jun-98	1599.1	9.0	9.0	1599.1	90	104.3	104.3	1286.1	1287.0	228	248.2	248.2	258.0	14-Jun-98
21-Jun-98	1599.4	6.2	6.2	1599.4	90	86.9	86.9	1287.8	1289.0	228	217.0	217.0	215.0	21-Jun-98
28-Jun-98	1599.9	4.0	4.0	1599.9	50.6	69.8	69.8	1289.5	1290.0	228	186.3	186.3	190.5	28-Jun-98
5-Jul-98	1594.4	10.9	10.9	1594.4	50.6	64.3	64.3	1289.2	1289.7	200	175.1	175.1	175.1	5-Jul-98
12-Jul-98	1584.8	14.0	14.0	1584.8	50.6	56.3	56.3	1288.1	1288.6	200	168.4	168.4	168.4	12-Jul-98
19-Jul-98	1574.4	14.0	14.0	1574.4	50.6	47.0	47.0	1287.0	1287.5	200	147.8	147.8	147.8	19-Jul-98
26-Jul-98	1563.1	14.0	14.0	1563.1	50.6	41.0	41.0	1285.9	1285.6	200	132.9	130.0	135.0	26-Jul-98
2-Aug-98	1551.1	14.0	14.0	1551.1	50.6	35.7	35.7	1284.8	1284.5	200	113.3	113.3	113.3	2-Aug-98
9-Aug-98	1538.6	14.0	14.0	1538.6	50.6	38.8	38.8	1283.7	1283.3	200	136.4	136.4	136.4	9-Aug-98
16-Aug-98	1525.4	14.0	14.0	1525.4	50.6	37.3	37.3	1282.6	1282.2	200	130.5	130.5	130.5	16-Aug-98
23-Aug-98	1519.0	6.2	6.2	1519.0	50.6	28.7	28.7	1281.5	1281.3	200	116.5	116.5	115.0	23-Aug-98
30-Aug-98	1518.7	1.3	1.3	1518.7	50.6	23.0	23.0	1280.3	1280.0	200	104.5	104.5	105.5	30-Aug-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: 05/29/98
2 Libby pulses 3 days for sturgeon beginning on May 18 with 4 units, maintains incubation flow at Bonners Ferry of 25 kcfs for 21 days, then refills by 31 July and drafts 20 feet in August.
3 Arrow releases 16 kcfs through 14 Jun, then releases 20 kcfs through the end of Jun.
4 Hungry Horse meets Columbia Falls minimum flow requirement, refills by the end of Jun, drafts 10 feet in July and 10 feet in August.
5 Grand Coulee is regulated to 1287 feet by 7June, refill by 30 Jun, draft 5 feet by end of Jul., draft to 1280 feet by end of Aug.
6 Brownlee is passing inflow through the end of July and drafts to elevation 2049.5 feet by 31 Aug.
7 Dworshak refills by 30 Jun, and augments for Lower Granite up to 14 kcfs starting 1 Jul until elevation 1520 feet is reached in August.
8 Albeni Falls is regulated to be at 2062.5 feet by 30 May, then pass inflow.

Volume Runoff Comparison:

	SSARR Apr-Jul	WSF Apr-Jul	MAY-98FINAL 1
LIB	5.5 Maf	4.6 Maf	
DWR	1.9 Maf	1.6 Maf	
LWG	20.1 Maf	17.4 Maf	

Seasonal Average Actual/Forecasted Flows:

LWG	4/10 - 6/20	110 kcfs
	6/21 - 7/31	56 kcfs

HGH	1.5 Maf	1.4 Maf
GCL	47.7 Maf	44.6 Maf
BRN	7.2 Maf	4.5 Maf
TDA	73.99 Maf	68.2 Maf

MCN	4/20 - 6/30	270 kcfs
	7/01 - 7/31	157 kcfs

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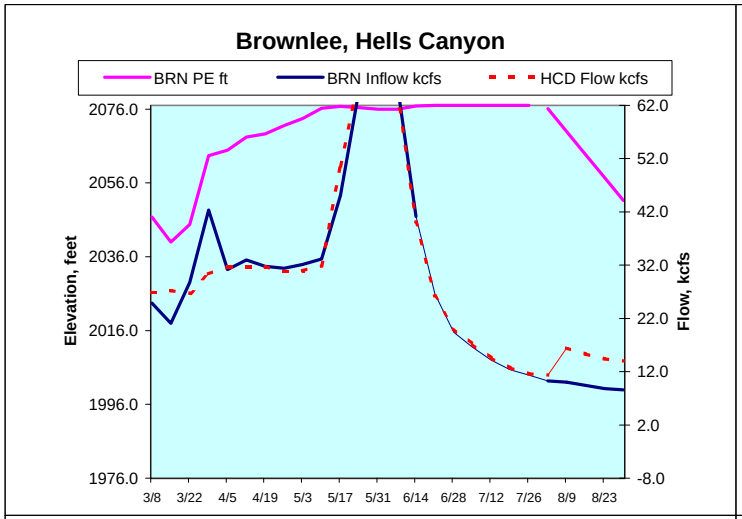
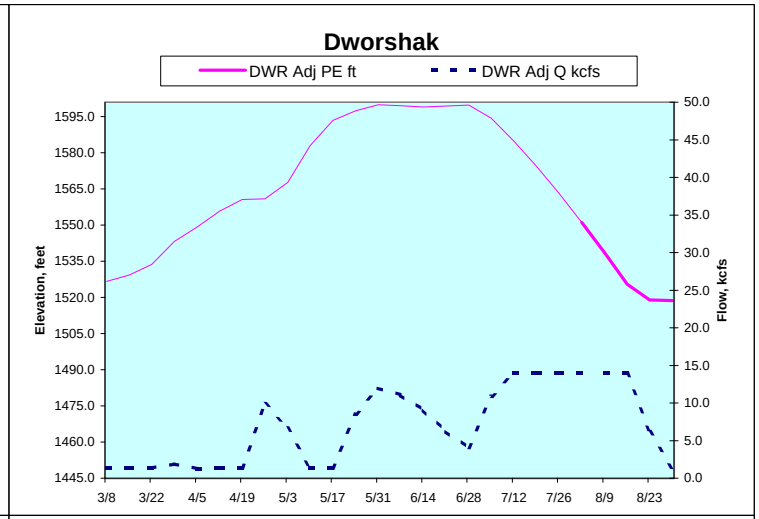
SSARR= 5/29/98 **Reservoir Control Center** 11:13:36 AI

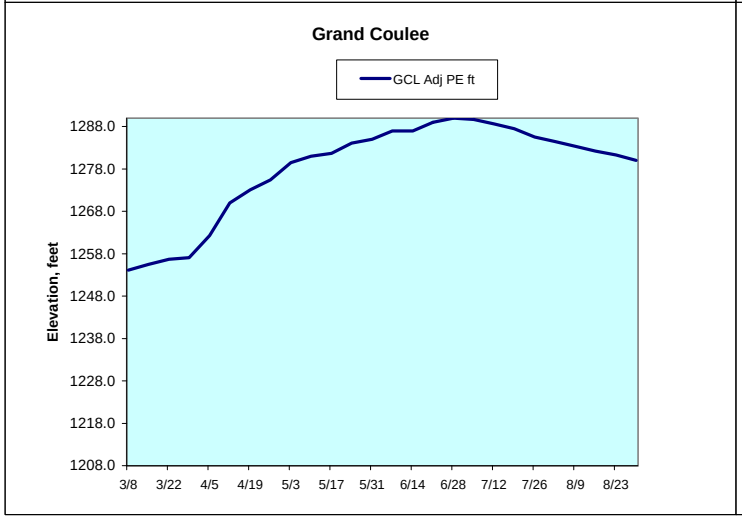
ARROW, LIBBY, HUNGRY HORSE, ALBENI FALLS, BROWNLEE, HELLS CANYON, PRIEST RAPIDS, BONNEVILLE

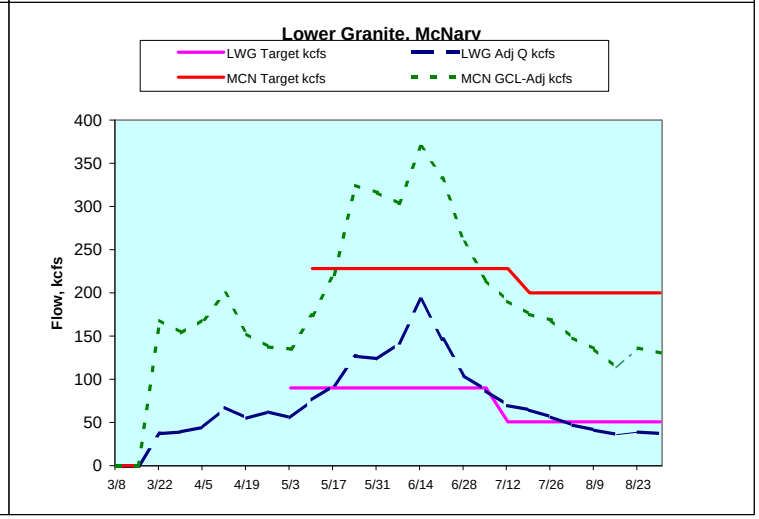
Weekly Average Summary

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	1399.8	62.0	2391.5	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	1394.6	65.3	2391.0	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	1389.7	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	1387.3	47.5	2391.5	4.0	3507.3	0.5	2055.6	21.9	42.3	2063.4	30.3	128.5	232.1	29-Mar-98
5-Apr-98	1387.4	30.5	2391.8	4.0	3509.0	0.4	2055.6	19.9	31.2	2064.8	31.7	91.9	177.1	5-Apr-98
12-Apr-98	1389.8	20.1	2392.4	4.0	3511.0	0.2	2055.2	24.9	33.0	2068.4	31.6	71.6	158.9	12-Apr-98
19-Apr-98	1392.8	20.1	2392.7	4.0	3512.5	0.2	2055.9	13.6	31.8	2069.3	31.7	80.8	152.2	19-Apr-98
26-Apr-98	1395.4	20.1	2396.3	4.0	3516.5	0.4	2055.4	24.3	31.4	2071.5	30.8	92.9	190.4	26-Apr-98
3-May-98	1399.4	20.1	2403.8	4.0	3523.2	0.2	2056.3	25.9	32.1	2073.4	30.9	128.7	238.4	3-May-98
10-May-98	1405.7	20.0	2416.6	4.0	3532.9	0.2	2059.1	26.5	33.1	2076.2	31.9	188.2	342.2	10-May-98
17-May-98	1411.5	15.9	2425.3	6.0	3538.9	0.2	2060.4	33.9	45.1	2076.8	50.6	191.8	329.4	17-May-98
24-May-98	1416.4	15.8	2427.8	19.5	3544.6	0.4	2061.2	33.9	65.2	2076.4	67.3	155.5	318.8	24-May-98
31-May-98	1420.7	16.3	2438.0	14.1	3551.3	0.9	2062.4	52.8	80.6	2076.0	85.1	174.3	381.2	31-May-98
7-Jun-98	1425.9	16.0	2442.0	17.7	3555.3	2.8	2062.5	51.0	66.2	2076.0	64.9	178.7	349.2	7-Jun-98
14-Jun-98	1429.9	16.0	2445.1	13.4	3557.9	3.8	2062.5	36.5	41.2	2076.9	40.1	148.8	267.2	14-Jun-98
21-Jun-98	1433.3	20.0	2450.3	10.0	3560.0	4.4	2062.5	38.4	26.6	2077.0	26.2	126.8	219.7	21-Jun-98
28-Jun-98	1436.1	20.0	2455.7	10.0	3560.0	6.2	2062.5	37.5	19.4	2077.0	20.1	118.8	193.7	28-Jun-98
5-Jul-98	1438.7	25.7	2459.0	13.6	3558.7	6.7	2062.5	31.7	16.6	2077.0	17.2	111.8	176.0	5-Jul-98
12-Jul-98	1440.6	30.0	2459.0	22.3	3556.5	6.8	2062.5	27.2	14.2	2077.0	14.6	111.5	168.7	12-Jul-98
19-Jul-98	1441.8	30.0	2459.0	18.8	3554.2	5.8	2062.5	21.1	12.4	2077.0	12.7	99.6	148.1	19-Jul-98
26-Jul-98	1443.1	30.0	2459.0	18.4	3551.9	5.6	2062.5	17.6	11.4	2077.0	11.6	95.7	138.7	26-Jul-98
2-Aug-98	1443.4	35.7	2458.4	15.8	3549.7	5.2	2062.5	14.8	10.2	2076.1	11.4	78.0	114.6	2-Aug-98
9-Aug-98	1443.1	50.0	2453.8	26.6	3547.4	4.7	2062.5	13.2	10.0	2069.9	16.4	98.0	137.7	9-Aug-98
16-Aug-98	1442.2	50.0	2449.3	22.9	3545.2	4.5	2062.5	12.1	9.4	2063.7	15.3	92.5	131.9	16-Aug-98
23-Aug-98	1441.1	50.0	2444.8	21.5	3542.9	4.4	2062.5	11.4	8.8	2057.5	14.4	85.4	116.5	23-Aug-98
30-Aug-98	1439.7	50.0	2440.3	18.4	3540.7	4.3	2062.5	10.9	8.6	2051.3	14.0	81.9	106.7	30-Aug-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
62.0
52.0
42.0
32.0
22.0
12.0
2.0
-8.0
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


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


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 3/22 4/5 4/19 5/3 5/17 5/31 6/14 6/28 7/12 7/26 8/9 8/23


Lower Granite, McNary
LWG Target kcfs
LWG Adj Q kcfs
MCN Target kcfs
MCN GCL-Adj kcfs
Flow, kcfs
400
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