M:/TMT2000/tmt0327.xls
SSARR= 3/27/00

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

03/28/00
8:10 AM

Week Ending	DWR PE ft	DWR Flow kcfs	DWR Adj Q kcfs	DWR Adj PE ft	LWG Objective kcfs	LWG Flow kcfs	LWG Adj Q kcfs	GCL PE ft	GCL Adj PE ft	PRD Objective kcfs	PRD Flow kcfs	PRD GCL-Adj kcfs	MCN Objective kcfs	MCN Flow kcfs	MCN DWR-Adj kcfs	MCN GCL-Adj kcfs	Week Ending
5-Mar-00	1523.7	7.9	7.9	1523.7		59.8	59.8	1264.4	1264.4		97.3	97.3		159.1	159.1	159.1	5-Mar-00
12-Mar-00	1519.5	10.6	10.6	1519.5		55.1	55.1	1264.3	1264.3		123.1	123.1		184.6	184.6	184.6	12-Mar-00
19-Mar-00	1515.8	9.4	9.4	1515.8		50.9	50.9	1264.8	1264.8		115.4	115.4		175.6	175.6	175.6	19-Mar-00
26-Mar-00	1518.6	4.5	4.5	1518.6		50.1	50.1	1265.3	1265.3		101.0	101.0		153.4	153.4	153.4	26-Mar-00
2-Apr-00	1522.7	4.0	4.0	1522.7		54.7	54.7	1263.0	1263.0		97.8	97.8		153.7	153.7	153.7	2-Apr-00
9-Apr-00	1516.3	13.7	13.7	1516.3	100	66.6	66.6	1258.0	1258.0		100.0	100.0		170.8	170.8	170.8	9-Apr-00
16-Apr-00	1510.3	13.7	13.7	1510.3	100	72.4	72.4	1251.5	1251.5	135.0	103.0	103.0		177.5	177.5	177.5	16-Apr-00
23-Apr-00	1510.6	12.7	12.7	1510.6	100	92.4	92.4	1245.1	1242.4	135.0	111.7	123.7	260	205.0	205.0	217.0	23-Apr-00
30-Apr-00	1516.6	10.8	10.8	1516.6	100	103.9	103.9	1238.6	1233.5	135.0	123.9	133.0	260	227.9	227.9	237.0	30-Apr-00
7-May-00	1536.0	1.5	1.5	1536.0	100	111.5	111.5	1233.3	1225.7	135.0	136.8	145.5	260	251.4	251.4	260.0	7-May-00
14-May-00	1557.1	1.5	1.5	1557.1	100	129.5	129.5	1232.9	1229.5	135.0	142.9	126.9	260	276.0	276.0	260.0	14-May-00
21-May-00	1578.5	1.5	1.5	1578.5	100	156.9	156.9	1240.4	1248.0	135.0	145.4	98.1	260	307.4	307.4	260.0	21-May-00
28-May-00	1592.4	1.5	1.5	1592.4	100	129.4	129.4	1251.7	1262.8	135.0	142.6	122.5	260	280.1	280.1	260.0	28-May-00
4-Jun-00	1598.2	9.0	6.6	1600.0	100	114.3	111.8	1262.9	1273.8	135.0	144.0	141.4	260	265.1	262.7	260.0	4-Jun-00
11-Jun-00	1599.0	10.3	13.7	1598.3	100	92.5	95.9	1273.3	1280.5	135.0	139.6	156.9	260	239.3	242.7	260.0	11-Jun-00
18-Jun-00	1600.0	10.0	13.7	1596.6	100	92.5	96.2	1279.4	1289.9	135.0	176.5	156.1	260	276.6	280.4	260.0	18-Jun-00
25-Jun-00	1600.0	7.2	2.6	1600.0	51.8	60.7	56.1	1285.6	1286.0	135.0	136.3	193.6	260	207.3	202.7	260.0	25-Jun-00
2-Jul-00	1600.0	6.6	6.6	1600.0	51.8	54.1	54.1	1290.0	1290.0	135.0	158.0	160.3	200	213.4	213.4	215.7	2-Jul-00
9-Jul-00	1600.0	4.3	13.7	1593.0	51.8	38.9	48.3	1290.0	1290.0		187.9	187.9	200	232.6	242.0	242.0	9-Jul-00
16-Jul-00	1593.8	12.6	13.7	1585.5	51.8	43.2	44.4	1290.0	1290.0		173.4	173.4	200	219.9	221.1	221.1	16-Jul-00
23-Jul-00	1584.8	14.0	13.7	1576.3	51.8	39.8	39.5	1290.0	1289.8		155.5	156.8	200	198.9	198.6	200.0	23-Jul-00
30-Jul-00	1574.5	14.0	13.7	1565.7	51.8	35.3	35.0	1290.0	1285.3		135.6	161.4	200	174.5	174.2	200.0	30-Jul-00

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: 3/27/00
2 Libby completes one sturgeon pulse of full load on 5 units for 3 days followed by 21 days of 12 kcfs incubation flows, then a flat flow of 7.5 - 8 kcfs is specified, filling the project by the end of July.
3 Hungry Horse meets Apr 30 flood control, then releases 2600 cfs flat through July 7 and refills by that date.
4 Dworshak shifts approximately 120 kaf of end of March flood control elevation to Grand Coulee.
5 Grand Coulee is limited by 1-1.3 ft/day draft rate and is unable to meet PRD 135 kcfs objectives in April. GCL meets Apr 10 (shifted) and Apr 30 flood control , then refills by mid June.
6 Albeni Falls operates between 2053 and 2054 through Mar 30 and starts refilling in April. Project fills by end of May.
7 Brownlee drafts to Apr 30 flood control then refills in June.
8 Dworshak drafts to Mar 30 shifted flood control elevation, refills in early June and stays near full until early July. Project begins augmenting LWG flows in mid June.

Volume Runoff Comparison:

	SSARR Apr-Jul	WSF Apr-Jul	MAR-00FINAL 1
LIB	6.00 Maf	6.06 Maf	
DWR	2.77 Maf	2.70 Maf	
LWG	21.02 Maf	20.20 Maf	
HGH	1.97 Maf	1.97 Maf	
GCL	53.01 Maf	56.20 Maf	
BRN	5.29 Maf	4.06 Maf	
TDA	82.72 Maf	84.2 Maf	

Seasonal Average Actual/Forecasted Flows:

LWG	4/3 - 6/20	106 kcfs	
	6/21 - 8/31	kcfs	
PRD	4/10 - 6/30	138.40 kcfs	
MCN	4/20 - 6/30	250 kcfs	
	7/01 - 8/31	kcfs	

Observed Average Flow Apr 01 - Date:

LWG	kcfs
PRD	kcfs
MCN	kcfs

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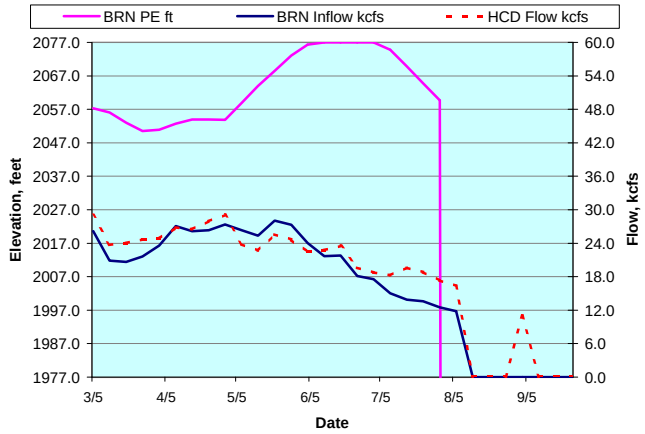
CORPS OF ENGINEERS, NORTHWESTERN DIVISION - NORTH PACIFIC REGION
Reservoir Control Center
ARROW, LIBBY, HUNGRY HORSE, ALBENI FALLS, BROWNLEE, HELLS CANYON, BONNEVILLE
Weekly Average Summary

03/28/00
8:10 AM

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	BON Flow kcfs	BON Dwr Adj kcfs	BON GCL-Adj kcfs	Week Ending
5-Mar-00	1402.9	47.9	2339.4	8.8	3510.9	5.3	2053.5	13.1	26.1	2057.3	29.0	188.0	188.0	188.0	5-Mar-00
12-Mar-00	1400.1	43.7	2337.2	7.6	3508.2	4.8	2053.3	19.1	20.9	2056.0	23.7	208.6	208.6	208.6	12-Mar-00
19-Mar-00	1397.0	45.0	2336.8	4.1	3505.8	4.2	2053.6	16.2	20.6	2053.0	24.0	199.4	199.4	199.4	19-Mar-00
26-Mar-00	1394.8	37.0	2336.8	4.0	3503.1	4.7	2053.6	17.0	21.6	2050.5	24.7	184.1	184.1	184.1	26-Mar-00
2-Apr-00	1393.9	21.4	2337.3	4.0	3502.0	3.5	2053.5	18.1	23.6	2050.9	24.8	182.3	182.3	182.3	2-Apr-00
9-Apr-00	1393.1	20.0	2337.8	4.0	3500.5	3.6	2054.0	15.6	27.1	2052.7	26.9	196.6	196.6	196.6	9-Apr-00
16-Apr-00	1392.3	20.0	2338.2	4.0	3499.1	3.6	2054.7	14.0	26.2	2054.0	26.5	202.1	202.1	202.1	16-Apr-00
23-Apr-00	1392.2	20.0	2340.1	4.0	3498.5	3.6	2055.3	16.1	26.3	2053.9	28.0	231.0	231.0	243.0	23-Apr-00
30-Apr-00	1392.9	20.0	2342.7	4.0	3499.2	2.9	2056.0	18.9	27.4	2053.9	29.1	253.9	253.9	263.0	30-Apr-00
7-May-00	1394.5	20.0	2349.9	4.0	3502.2	2.6	2057.5	19.3	26.3	2059.0	23.8	277.9	277.9	286.5	7-May-00
14-May-00	1397.9	20.0	2362.5	5.0	3507.6	2.6	2059.0	24.7	25.4	2064.0	22.6	300.3	300.3	284.3	14-May-00
21-May-00	1404.5	20.0	2372.2	22.1	3516.8	2.6	2060.4	31.9	28.1	2068.5	25.6	329.3	329.3	281.9	21-May-00
28-May-00	1410.4	20.0	2386.9	12.0	3525.4	2.6	2061.9	34.1	27.3	2073.1	24.6	300.3	300.3	280.3	28-May-00
4-Jun-00	1417.3	20.0	2400.4	12.0	3533.7	2.6	2062.5	50.0	24.0	2076.3	22.5	282.0	279.6	276.9	4-Jun-00
11-Jun-00	1422.4	20.0	2411.0	10.9	3539.9	2.6	2062.5	53.3	21.7	2077.0	22.8	254.6	258.0	275.3	11-Jun-00
18-Jun-00	1430.4	20.0	2426.0	8.0	3548.3	2.6	2062.5	67.4	21.8	2077.0	23.5	289.9	293.7	273.3	18-Jun-00
25-Jun-00	1434.8	20.0	2434.1	8.0	3553.1	2.6	2062.5	54.3	18.1	2077.0	19.6	220.5	215.9	273.2	25-Jun-00
2-Jul-00	1440.3	32.2	2443.8	7.8	3558.6	2.6	2062.5	60.9	17.6	2077.0	18.7	223.0	223.0	225.3	2-Jul-00
9-Jul-00	1441.6	62.6	2449.7	7.5	3560.0	5.1	2062.5	50.4	15.0	2074.8	18.2	242.9	252.3	252.3	9-Jul-00
16-Jul-00	1443.1	62.6	2454.3	7.5	3560.0	5.4	2062.5	45.8	13.9	2069.8	19.6	228.8	230.0	230.0	16-Jul-00
23-Jul-00	1444.0	63.0	2457.4	7.5	3560.0	3.5	2062.5	36.2	13.6	2064.8	18.8	207.4	207.1	208.5	23-Jul-00
30-Jul-00	1444.0	64.8	2459.0	8.6	3560.0	2.5	2062.5	26.3	12.5	2059.7	17.3	182.7	182.4	208.2	30-Jul-00


Brownlee, Hells Canyon
BRN PE ft
BRN Inflow kcfs
HCD Flow kcfs
Elevation, feet
Flow, kcfs
Date
2077.0
2067.0
2057.0
2047.0
2037.0
2027.0
2017.0
2007.0
1997.0
1987.0
1977.0
60.0
54.0
48.0
42.0
36.0
30.0
24.0
18.0
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0.0
3/5
4/5
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8/5
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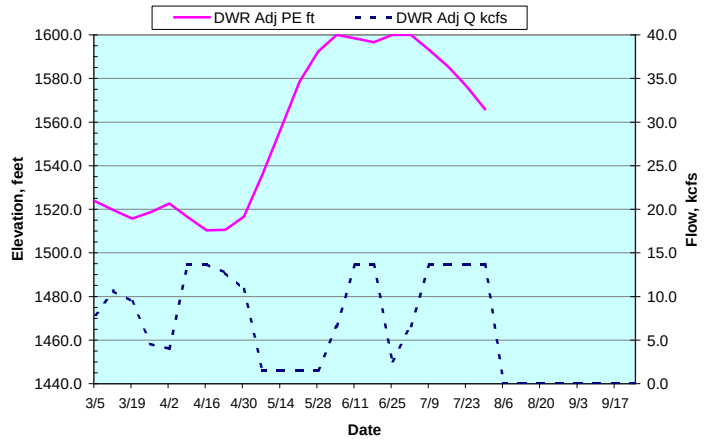
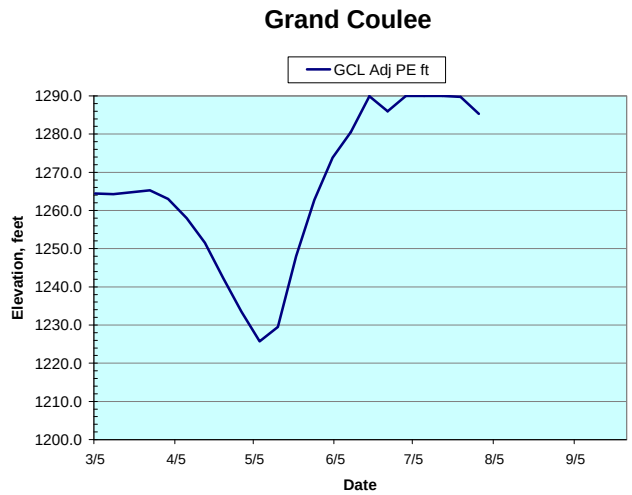
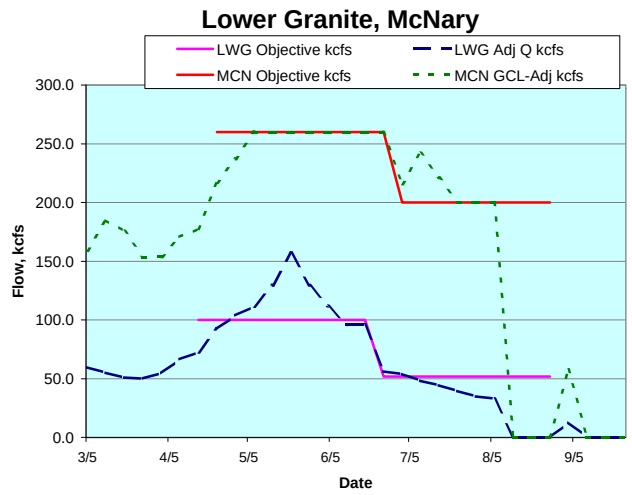

Dworshak
DWR Adj PE ft
DWR Adj Q kcfs
Elevation, feet
Flow, kcfs
Date
1600.0
1580.0
1560.0
1540.0
1520.0
1500.0
1480.0
1460.0
1440.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
3/5
3/19
4/2
4/16
4/30
5/14
5/28
6/11
6/25
7/9
7/23
8/6
8/20
9/3
9/17


Grand Coulee
GCL Adj PE ft
Elevation, feet
Date
1290.0
1280.0
1270.0
1260.0
1250.0
1240.0
1230.0
1220.0
1210.0
1200.0
3/5
4/5
5/5
6/5
7/5
8/5
9/5


Lower Granite, McNary
LWG Objective kcfs
LWG Adj Q kcfs
MCN Objective kcfs
MCN GCL-Adj kcfs
Flow, kcfs
Date
300.0
250.0
200.0
150.0
100.0
50.0
0.0
3/5
4/5
5/5
6/5
7/5
8/5
9/5