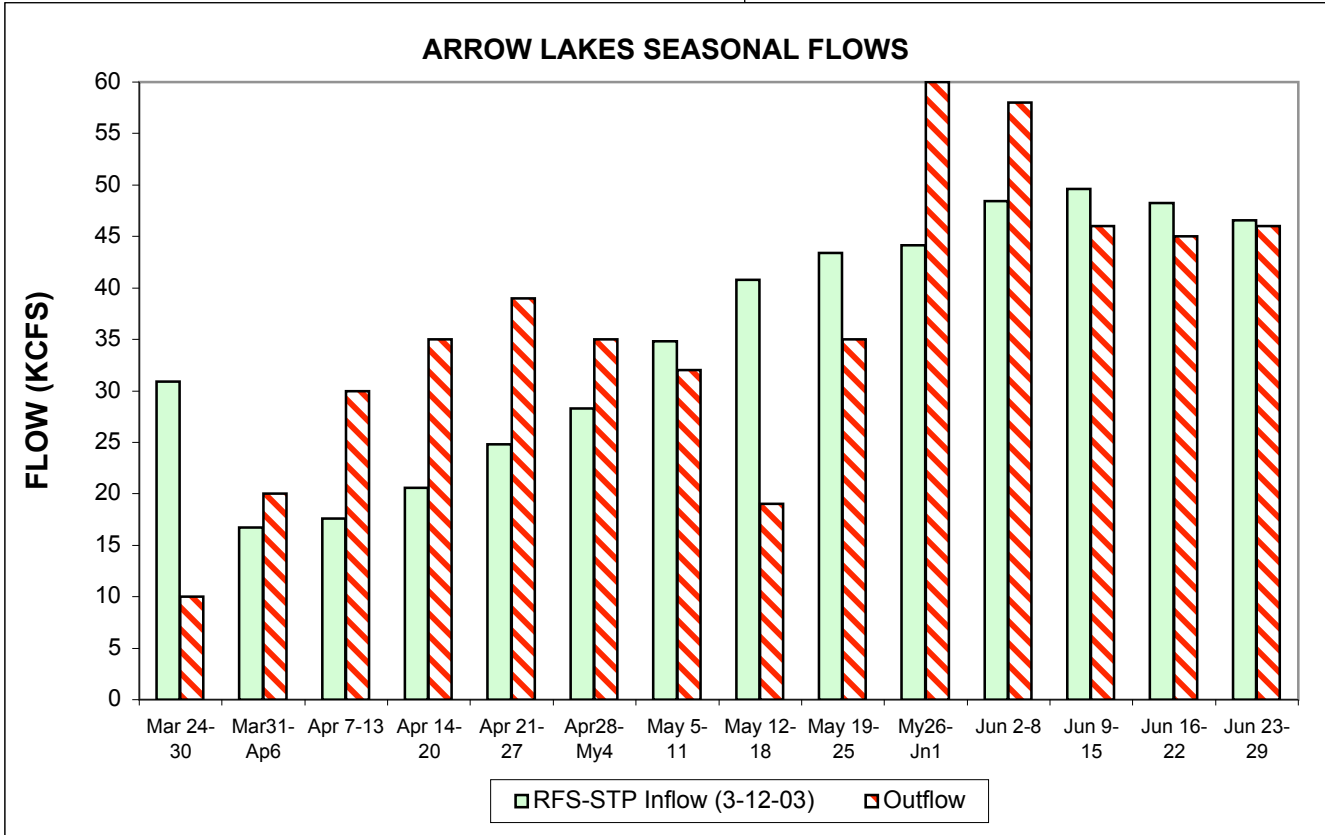
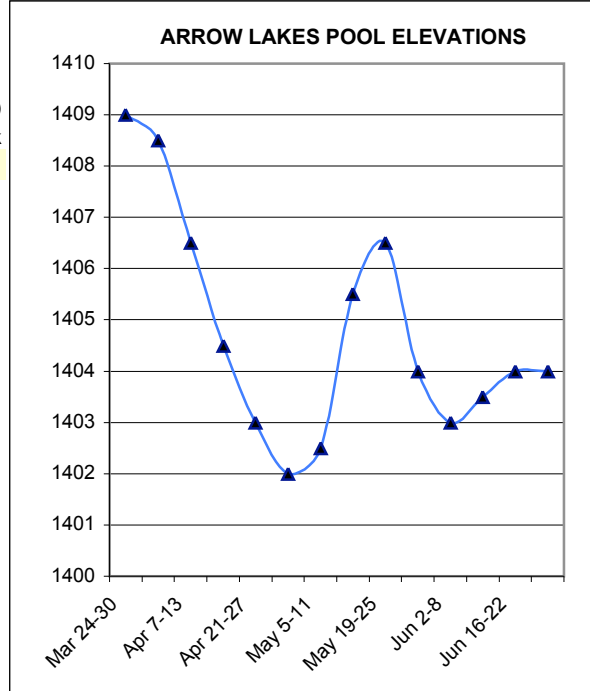


Columbia River at Arrow Lakes (ARDB)

18-Mar-03 WY 2003 SPRING UPDATE	Outflow (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Storage Change (KaF)	ARDB Pool Elevation (feet) end-of-week Observed:
Mar 23rd				1406.0
Mar 24-30	10	30.9	290	1409.0
Mar31-Apr6	20	16.7	-46	1408.5
Apr 7-13	30	17.6	-172	1406.5
Apr 14-20	35	20.6	-200	1404.5
Apr 21-27	39	24.8	-197	1403.0
Apr28-May4	35	28.3	-94	1402.0
May 5-11	32	34.8	39	1402.5
May 12-18	19	40.8	303	1405.5
May 19-25	35	43.4	116	1406.5
My26-Jn1	60	44.2	-220	1404.0
Jun 2-8	58	48.4	-133	1403.0
Jun 9-15	46	49.6	51	1403.5
Jun 16-22	45	48.3	45	1404.0
Jun 23-29	46	46.6	8	1404.0
Total (KaF):	6,941	6,442	-209	
CRITFC Hydro Program			<i>Altered Flood Control</i>	

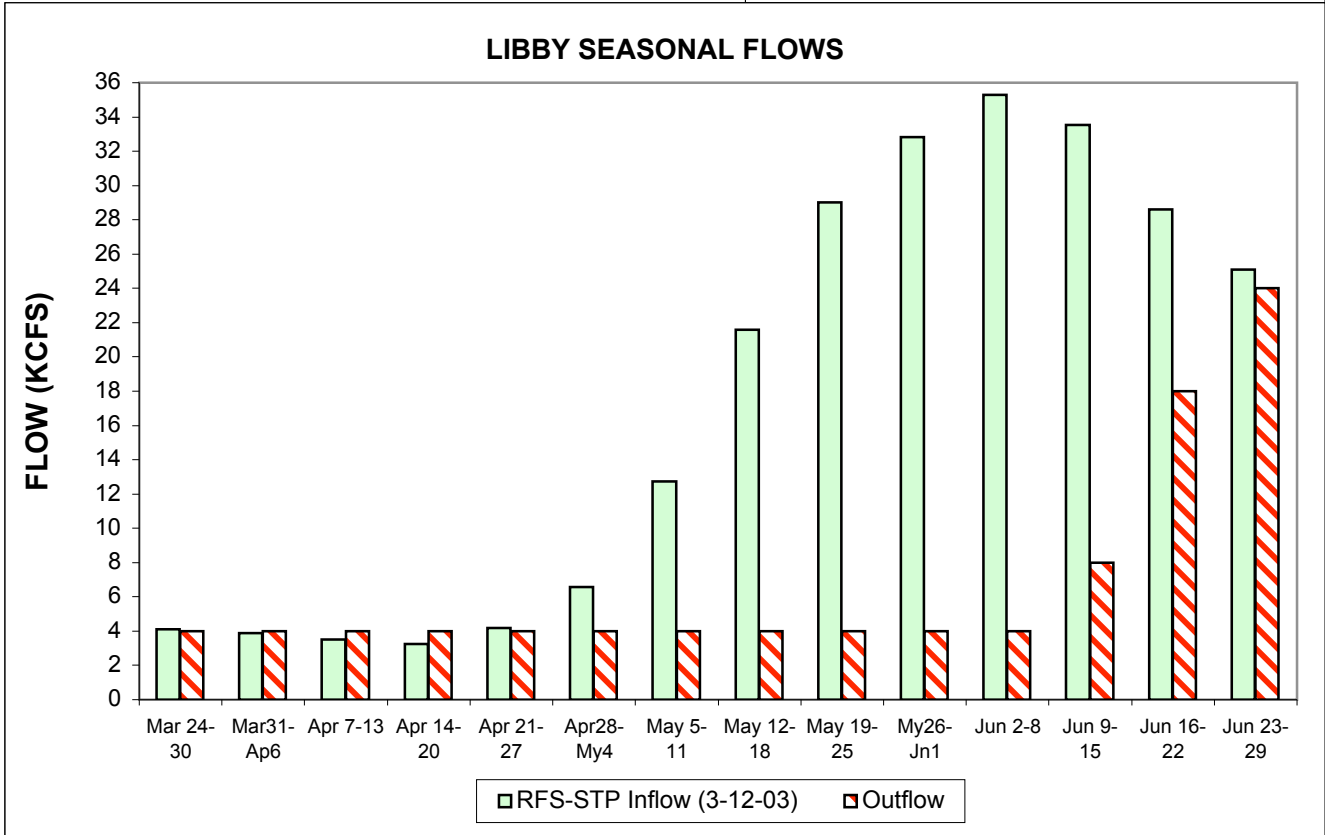
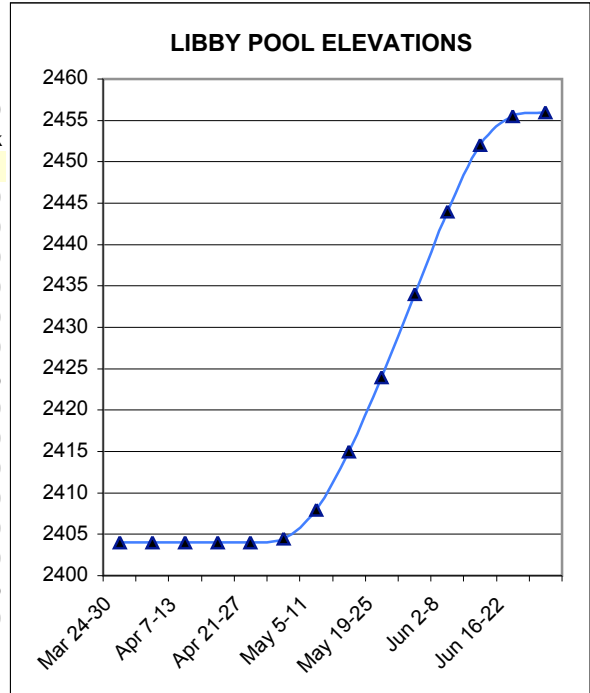


Kootenay River at Libby (LIB)

18-Mar-03 WY 2003 SPRING	Outflow (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Storage Change (KaF)	LIB Pool Elevation (feet) end-of-week Observed:
		Observed: (shaded)		Observed:
Mar 23rd				2404.0
Mar 24-30	4	4.1	1	2404.0
Mar31-Apr6	4	3.9	-2	2404.0
Apr 7-13	4	3.5	-7	2404.0
Apr 14-20	4	3.2	-11	2404.0
Apr 21-27	4	4.2	3	2404.0
Apr28-May4	4	6.6	36	2404.5
May 5-11	4	12.7	121	2408.0
May 12-18	4	21.6	244	2415.0
May 19-25	4	29.0	348	2424.0
My26-Jn1	4	32.8	400	2434.0
Jun 2-8	4	35.3	434	2444.0
Jun 9-15	8	33.5	355	2452.0
Jun 16-22	18	28.6	147	2455.5
Jun 23-29	24	25.1	15	2456.0
Total (KaF):	1,249	3,042	2085	

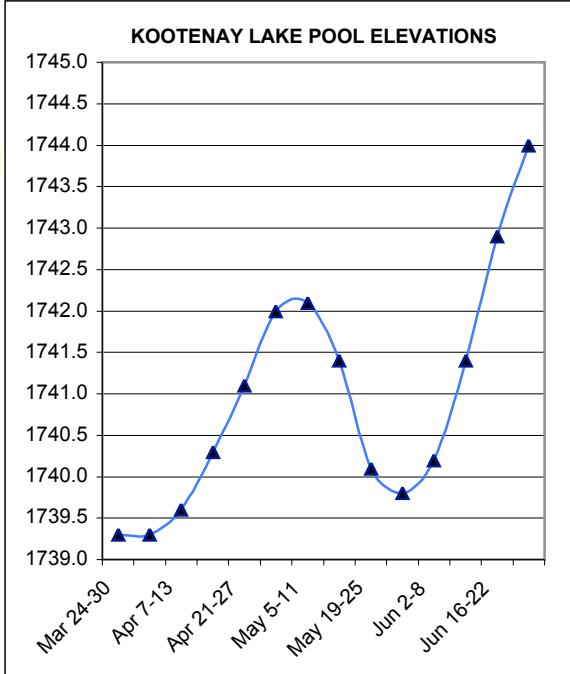
CRITFC Hydro Program

modified VAR-Q

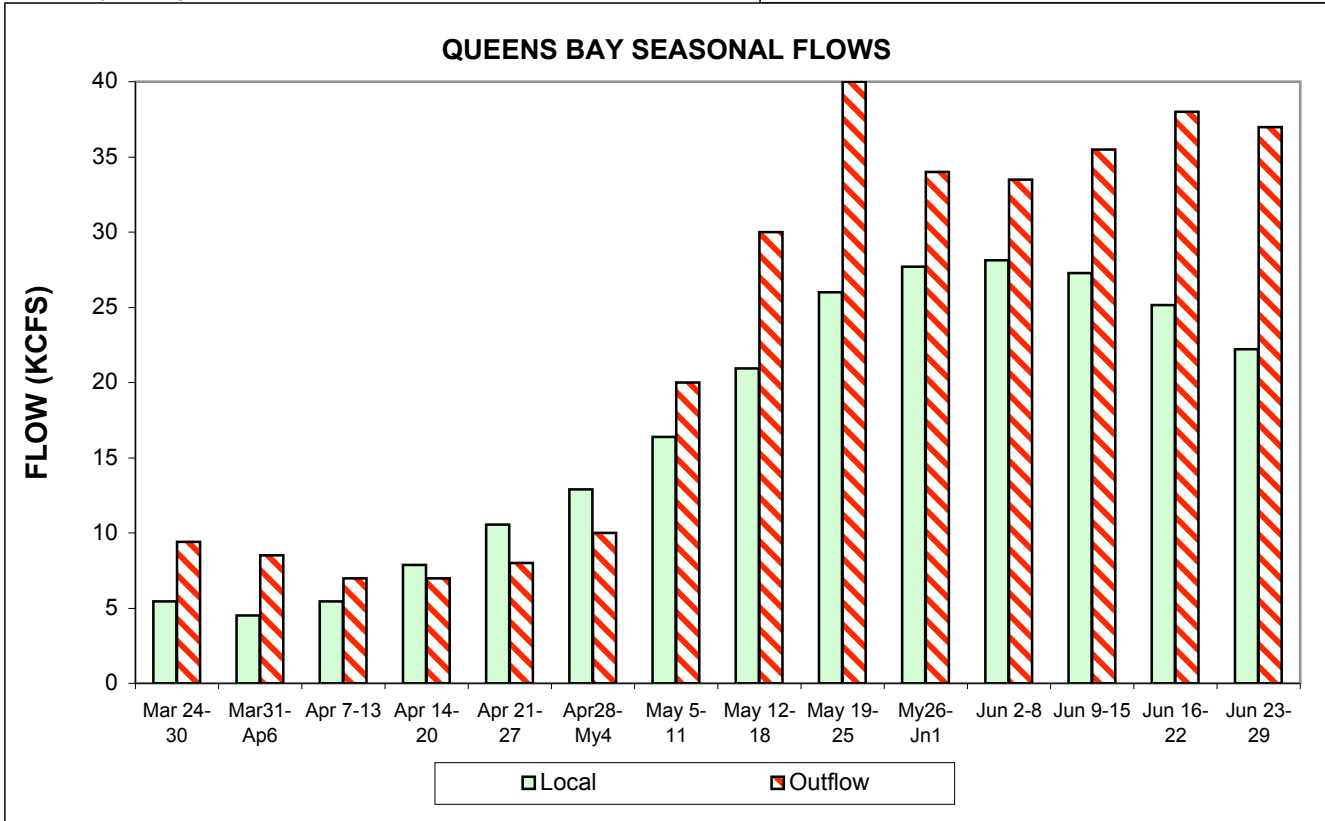


Kootenay River at Queens Bay (QBYB)

18-Mar-03	Outflow (CRITFC) (kcfs)	Libby Outflow (CRITFC) (kcfs)	Local Inflow (2001 DCD; (kcfs)	Storage Change (KaF)	QBYB Pool Elevation (feet) end-of-week Observed:
Mar 23rd					1739.3
Mar 24-30	9.4	4	5.4	1	1739.3
Mar31-Apr6	8.5	4	4.5	0	1739.3
Apr 7-13	7.0	4	5.4	34	1739.6
Apr 14-20	7.0	4	7.9	68	1740.3
Apr 21-27	8.0	4	10.6	91	1741.1
Apr28-May4	10.0	4	12.9	95	1742.0
May 5-11	20.0	4	16.4	5	1742.1
May 12-18	30.0	4	20.9	-70	1741.4
May 19-25	40.0	4	26.0	-139	1740.1
My26-Jn1	34.0	4	27.7	-32	1739.8
Jun 2-8	33.5	8	28.1	37	1740.2
Jun 9-15	35.5	18	27.3	136	1741.4
Jun 16-22	38.0	24	25.2	155	1742.9
Jun 23-29	37.0	24	22.2	128	1744.0
Total (KaF):	4,283	1,249	3,031	508	

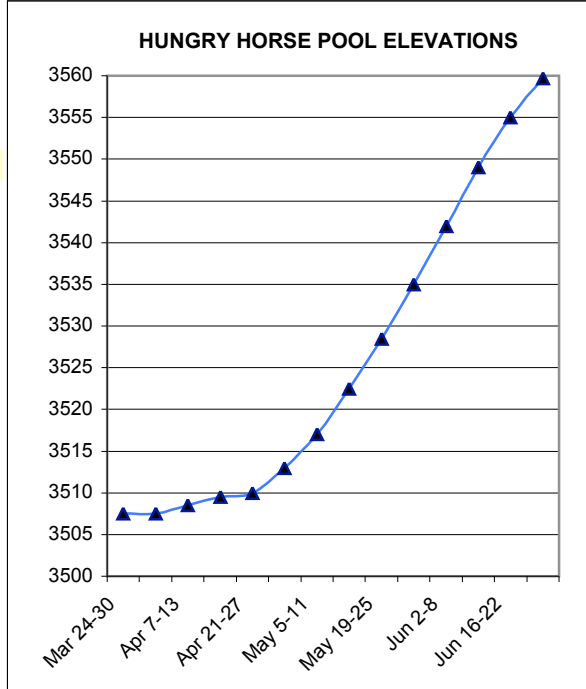


CRITFC Hydro Program



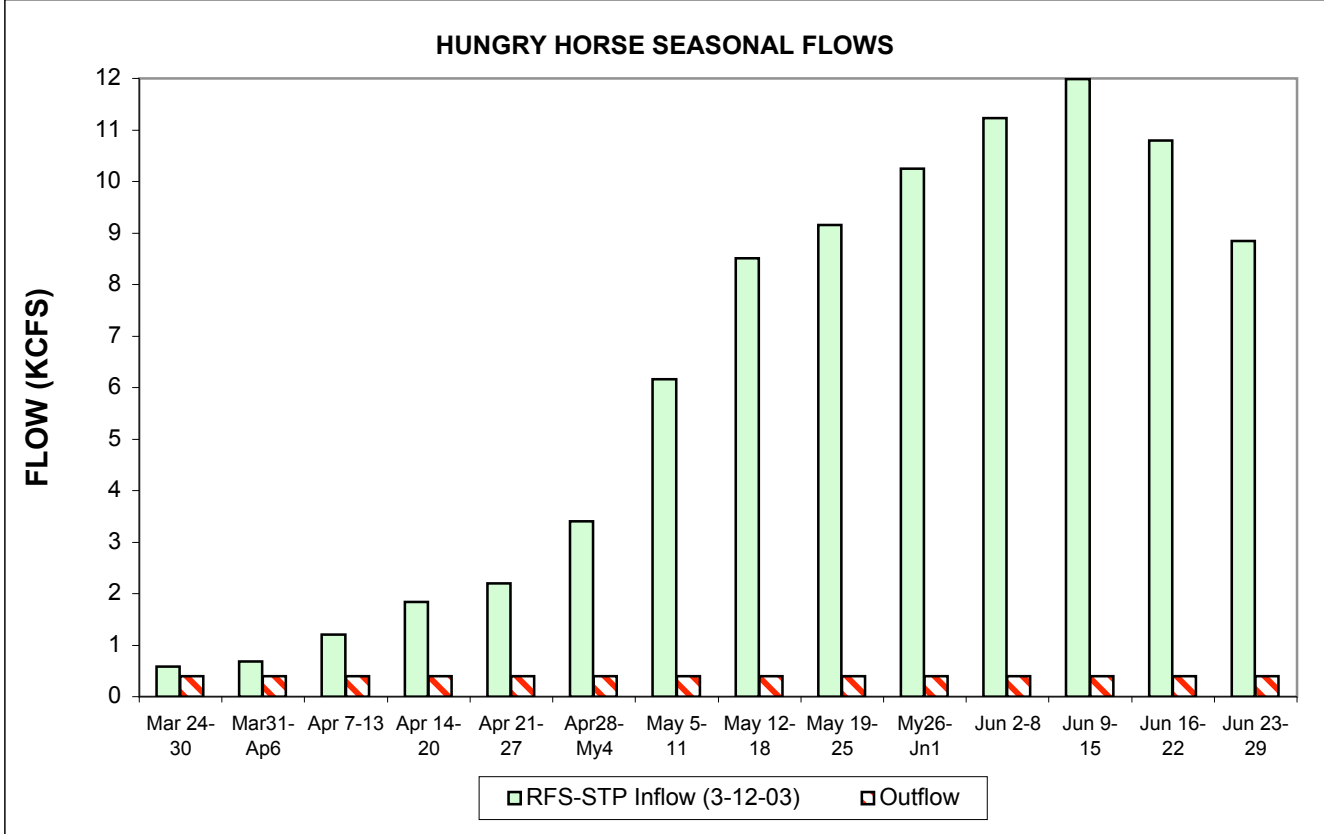
S. F. Flathead River at Hungry Horse (HGH)

18-Mar-03 WY 2003 SPRING	Outflow (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Storage Change (KaF)	HGH Pool Elevation (feet) end-of-week Observed:
		Observed: (shaded)		3507.5
Mar 23rd				3507.5
Mar 24-30	0.4	0.6	3	3507.5
Mar31-Apr6	0.4	0.7	4	3507.5
Apr 7-13	0.4	1.2	11	3508.5
Apr 14-20	0.4	1.8	20	3509.5
Apr 21-27	0.4	2.2	25	3510.0
Apr28-May4	0.4	3.4	42	3513.0
May 5-11	0.4	6.2	80	3517.0
May 12-18	0.4	8.5	113	3522.5
May 19-25	0.4	9.2	122	3528.5
My26-Jn1	0.4	10.3	137	3535.0
Jun 2-8	0.4	11.2	150	3542.0
Jun 9-15	0.4	12.0	161	3549.0
Jun 16-22	0.4	10.8	144	3555.0
Jun 23-29	0.4	8.8	117	3559.7
Total (KaF):	72	1,083	1128	



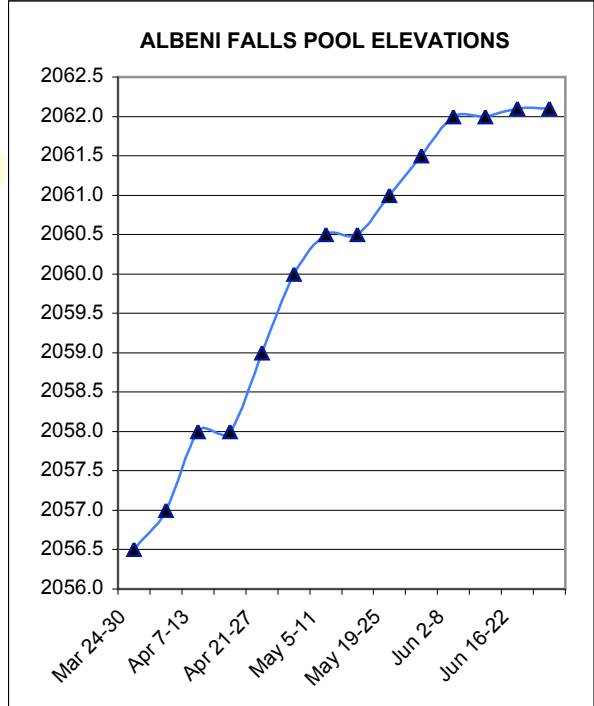
CRITFC Hydro Program

modified VAR-Q

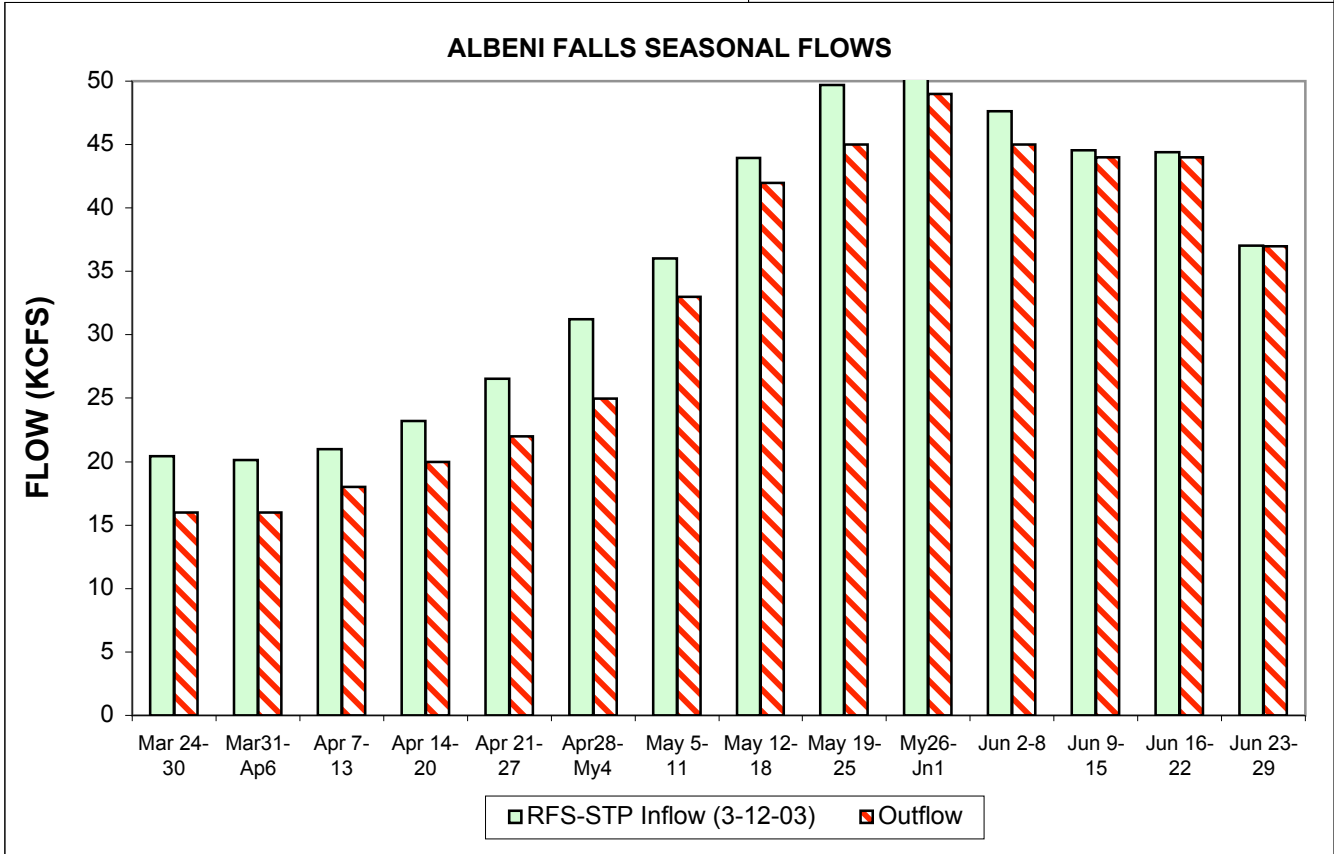


Pend O'Reille River at Albeni Falls (ALF)

18-Mar-03	Outflow (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Storage Change (KaF)	ALF Pool Elevation (feet) end-of-week
		Observed: (shaded)		Observed:
Mar 23rd				2056.0
Mar 24-30	16	20.4	62	2056.5
Mar31-Apr6	16	20.1	57	2057.0
Apr 7-13	18	21.0	42	2058.0
Apr 14-20	20	23.2	44	2058.0
Apr 21-27	22	26.5	63	2059.0
Apr28-May4	25	31.2	86	2060.0
May 5-11	33	36.0	42	2060.5
May 12-18	42	43.9	27	2060.5
May 19-25	45	49.7	65	2061.0
My26-Jn1	49	50.6	22	2061.5
Jun 2-8	45	47.6	36	2062.0
Jun 9-15	44	44.5	7	2062.0
Jun 16-22	44	44.4	5	2062.1
Jun 23-29	37	37.0	1	2062.1
Total (KaF):	6,108	6,376	559	

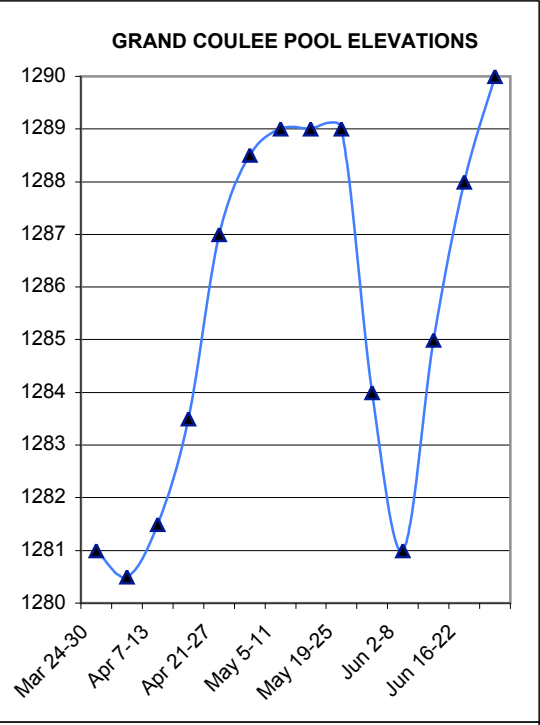


CRITFC Hydro Program



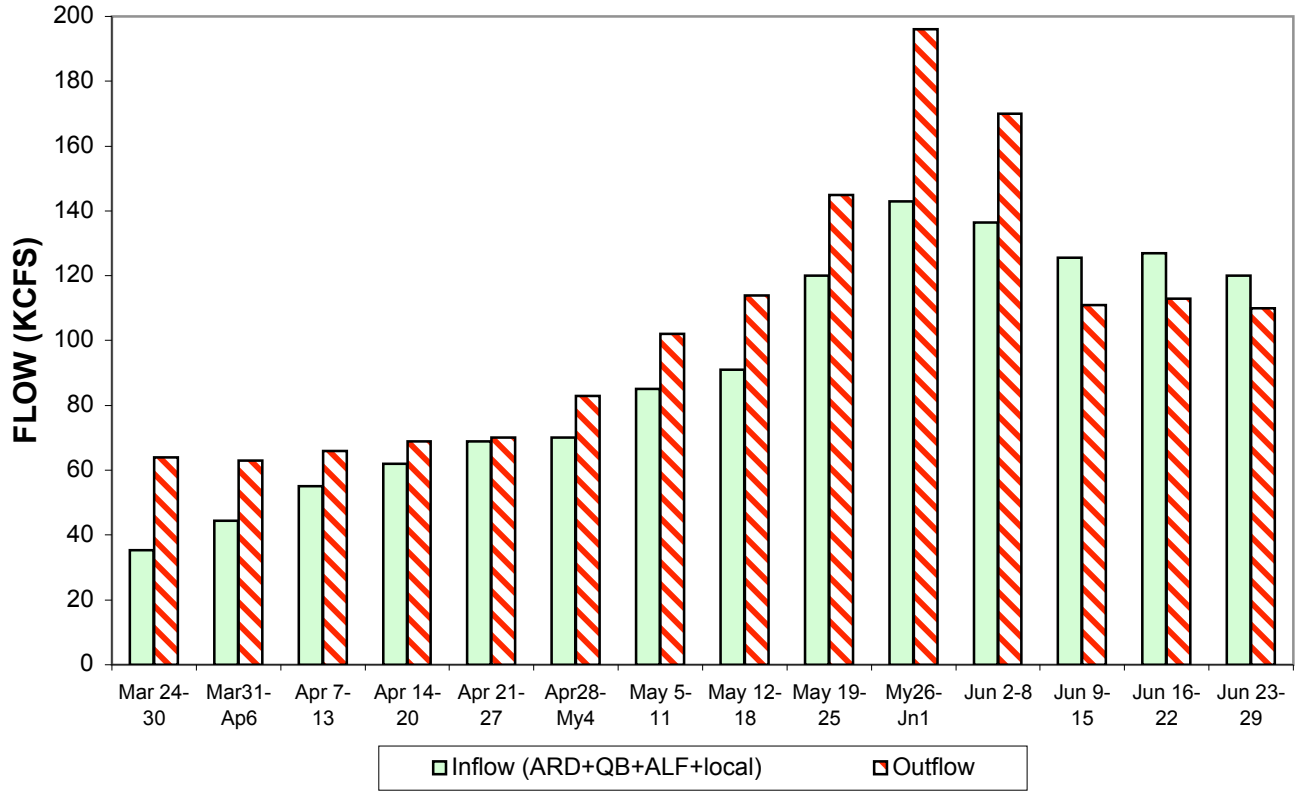
Columbia River at Grand Coulee (GCL)

18-Mar-03	Outflow (CRITFC)	Inflow (ARD+QB+ALF+local) (CRITFC)	Long Lake & Kettle R. (kcfs)	Storage Change (KaF)	GCL Pool Elevation (feet) end-of-week Observed:
Mar 23rd					1284.0
Mar 24-30	64	35	13.0	-217	1281.0
Mar31-Apr6	63	45	14.4	-57	1280.5
Apr 7-13	66	55	16.5	76	1281.5
Apr 14-20	69	62	19.3	171	1283.5
Apr 21-27	70	69	20.5	271	1287.0
Apr28-May4	83	70	20.6	105	1288.5
May 5-11	102	85	20.1	43	1289.0
May 12-18	114	91	24.0	14	1289.0
May 19-25	145	120	25.2	3	1289.0
My26-Jn1	196	143	25.2	-386	1284.0
Jun 2-8	170	137	14.5	-263	1281.0
Jun 9-15	111	126	7.9	311	1285.0
Jun 16-22	113	127	3.5	243	1288.0
Jun 23-29	110	120	0.7	149	1290.0
Total (KaF):	19,603	17,333		465	



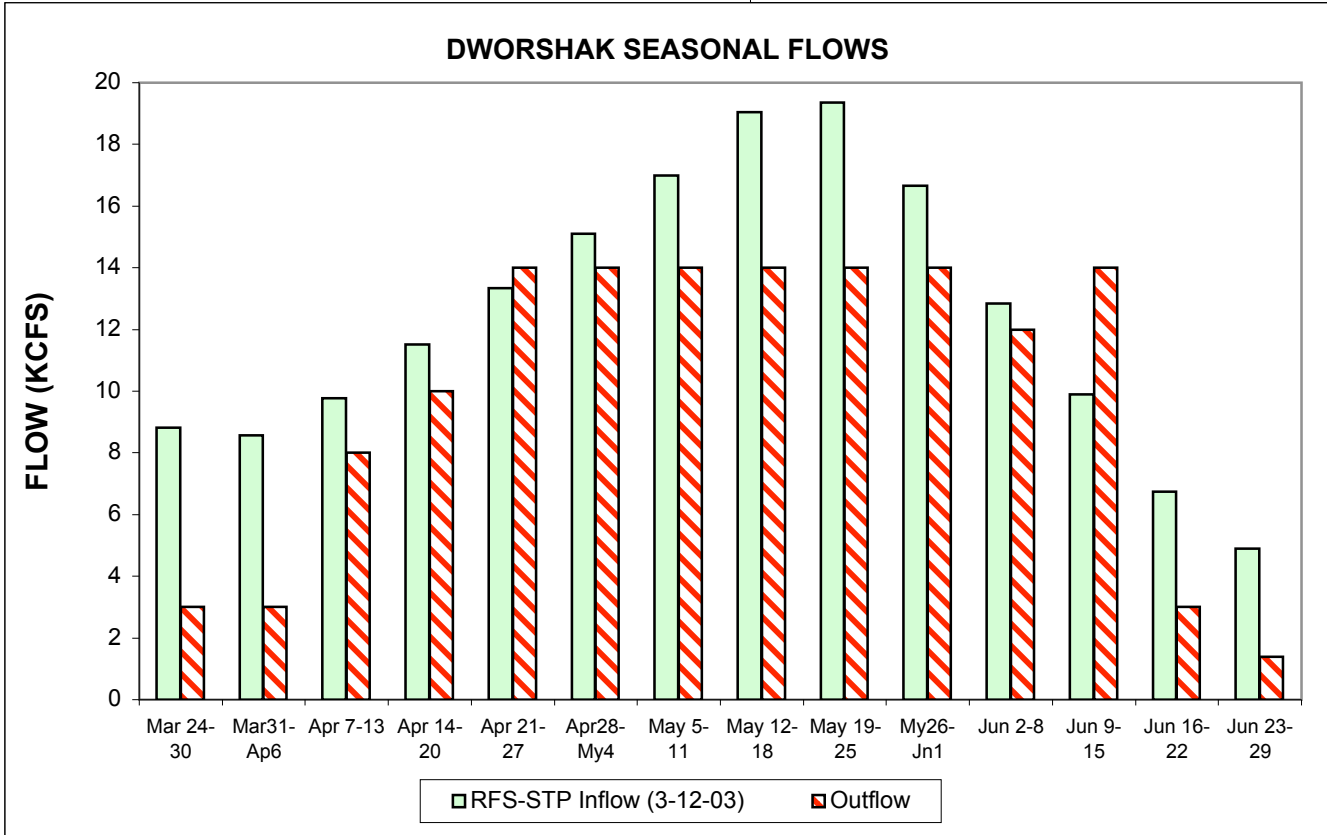
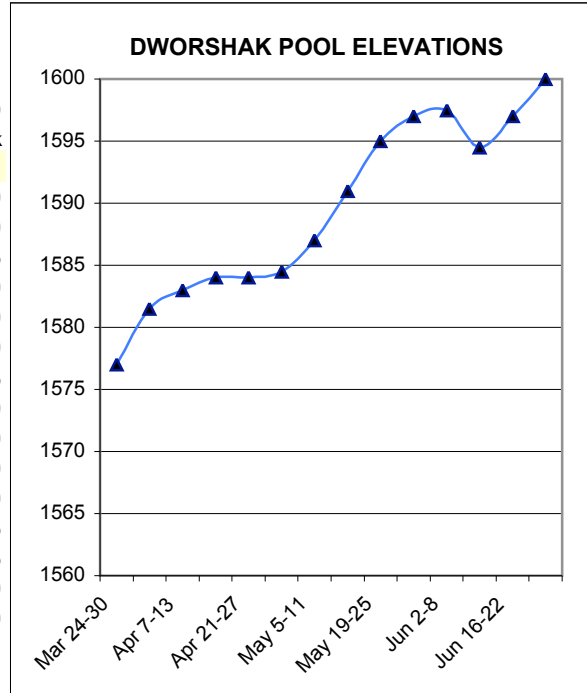
CRITFC Hydro Program Altered Flood Control

GRAND COULEE SEASONAL FLOWS



N.F. Clearwater at Dworshak (DWR)

18-Mar-03 WY 2003 SPRING	Outflow (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Storage Change (KaF)	DWR Pool Elevation (feet) end-of-week Observed:
		Observed: (shaded)		1572.0
Mar 23rd				1577.0
Mar 24-30	3.0	8.8	81	1581.5
Mar31-Apr6	3.0	8.6	77	1583.0
Apr 7-13	8.0	9.8	24	1584.0
Apr 14-20	10.0	11.5	21	1584.5
Apr 21-27	14.0	13.3	-9	1587.0
Apr28-May4	14.0	15.1	15	1591.0
May 5-11	14.0	17.0	41	1595.0
May 12-18	14.0	19.1	70	1597.0
May 19-25	14.0	19.4	74	1597.5
My26-Jn1	14.0	16.7	37	1594.5
Jun 2-8	12.0	12.8	12	1597.0
Jun 9-15	14.0	9.9	-57	1600.0
Jun 16-22	3.0	6.7	52	
Jun 23-29	1.4	4.9	48	
Total (KaF):	1,921	2,410	488	
CRITFC Hydro Program			<i>Altered Flood Control</i>	

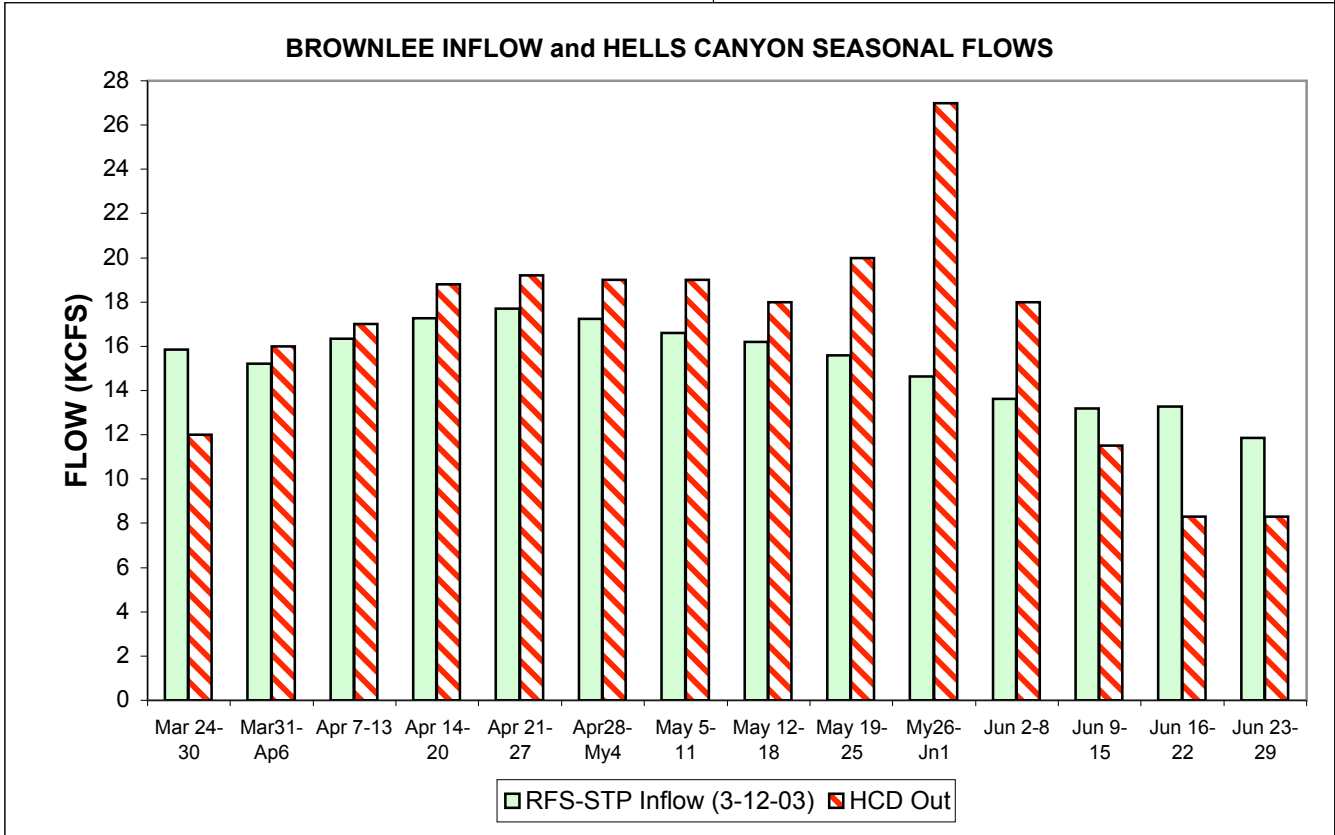
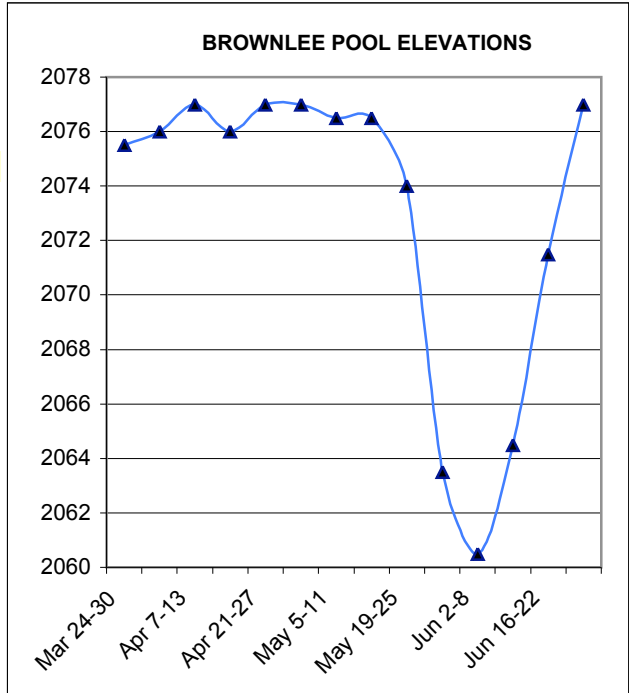


Snake River at Brownlee (BRN)

18-Mar-03 WY 2003 SPRING	HCD Out (CRITFC) (kcfs)	RFS-STP Inflow (3-12-03) (NWRFC) (kcfs)	Local Storage (kcfs)	BRN Pool Elevation (feet)	
			Change (KaF)	end-of-week Observed:	
Mar 23rd		Observed: (shaded)		2070.0	
Mar 24-30	12	15.8	1.5	74	2075.5
Mar31-Apr6	16	15.2	1.5	10	2076.0
Apr 7-13	17	16.4	1.5	12	2077.0
Apr 14-20	18.8	17.3	1.5	0	2076.0
Apr 21-27	19.2	17.7	1.5	0	2077.0
Apr28-May4	19	17.2	1.8	1	2077.0
May 5-11	19	16.6	1.8	-8	2076.5
May 12-18	18	16.2	1.9	1	2076.5
May 19-25	20	15.6	2.2	-31	2074.0
My26-Jn1	27	14.6	2.1	-142	2063.5
Jun 2-8	18	13.6	1.8	-36	2060.5
Jun 9-15	11.5	13.2	1.87	49	2064.5
Jun 16-22	8.3	13.3	1.7	93	2071.5
Jun 23-29	8.3	11.9	1.7	73	2077.0
Total (KaF):	3,056	2,815		96	

CRITFC Hydro Program

Altered Flood Control



Snake at Lower Granite (LWG)

18-Mar-03

**WY 2003
SPRING**

	2001 Obs. Observed (kcfs)	Federal Plan (kcfs) Observed (shaded)	CRITFC Outflow (kcfs)	Component Totals:
Mar 23rd				42
Mar 24-30	37.7	45.4		45
Mar31-Apr6	35.8	45.8		53
Apr 7-13	29.2	50.4		60
Apr 14-20	29.7	58.0		68
Apr 21-27	36.8	63.5		74
Apr28-May4	57.9	69.6		83
May 5-11	49.5	79.0		96
May 12-18	75.8	91.8		110
May 19-25	66.1	103.7		125
My26-Jun1	62.6	114.3		120
Jun 2-8	43.9	115.7		117
Jun 9-15	40.0	114.5		84
Jun 16-22	32.3	93.2		64
Jun 23-29	26.3	70.3		

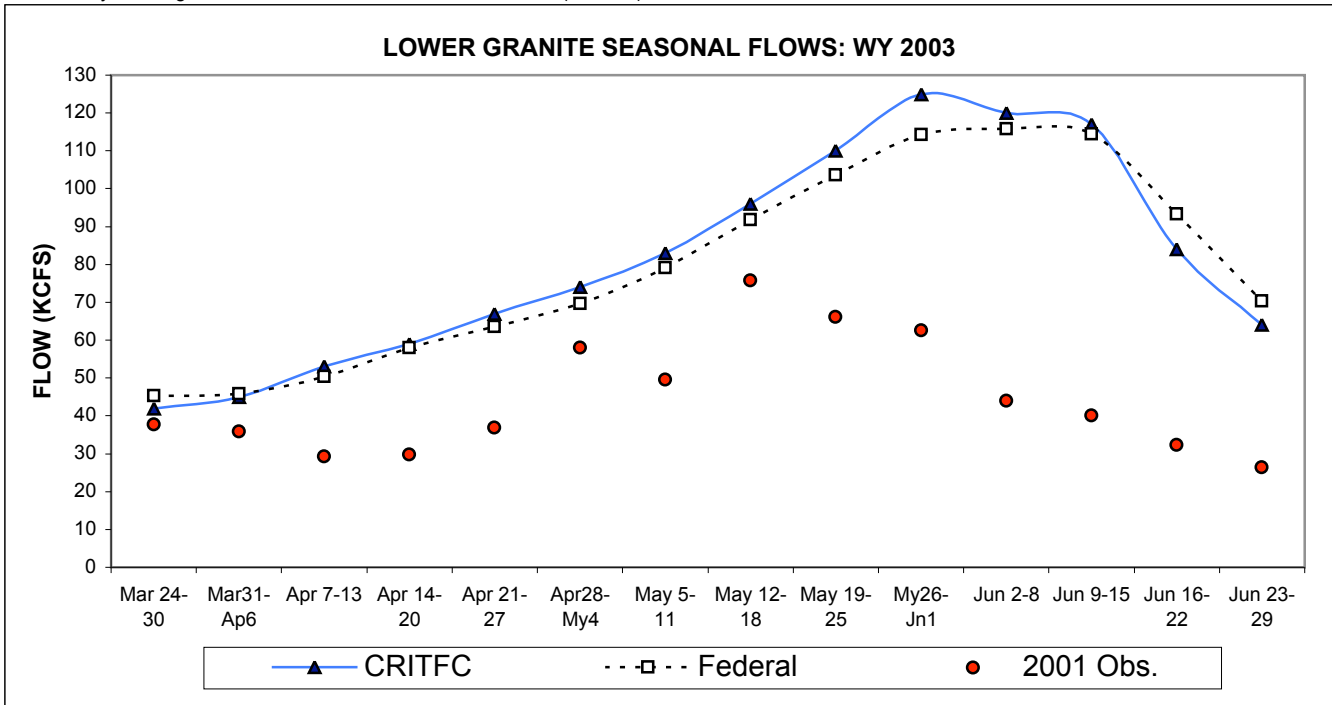
Grand Ronde R. at Troy & Local (kcfs) Observed (shaded)	Clearwater River at: DWR (CRITFC) (kcfs)	Salmon at: Whitebird (kcfs) Observed (shaded)	Snake at: Hells Canyon (CRITFC) (kcfs) Observed (shaded)
8.3	3	11.0	7.4
8.4	3	10.5	7.2
9.0	8	12.3	6.9
9.6	10	15.0	6.2
9.9	14	19.2	5.9
10.3	14	23.1	7.5
9.8	14	26.2	14.4
10.1	14	31.4	22.0
10.5	14	35.5	29.9
10.6	14	36.7	37.0
10.3	12	36.1	43.5
10.6	14	31.5	49.1
9.4	3	23.7	39.9
7.3	1.4	18.5	28.0

APR - JUN: (in KaF)	8,134	14,853	15,229	Sum Total: 15,249
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Tributary Monthly Totals (KaF):	1,745	1,880	4,438	4,131	3,056
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CRITFC Hydro Program

RFS-STP Inflow (3-12-03)



Columbia River at Priest Rapids (PRD)

18-Mar-03

**WY 2003
SPRING**

	2001 Obs. Observed (kcfs)	Federal Plan (kcfs) Observed (shaded)	CRITFC outflow (kcfs)	Component Totals:
Mar 23rd				70
Mar 24-30	60.0	90.3		70
Mar31-Apr6	68.3	74.3		70
Apr 7-13	76.6	87.6		73
Apr 14-20	68.4	107.8		77
Apr 21-27	68.0	109.0		79
Apr28-May4	69.5	110.7		93
May 5-11	56.3	113.6		115
May 12-18	46.6	118.5		132
May 19-25	52.1	124.7		169
My26-Jn1	79.8	129.5		225
Jun 2-8	97.1	132.0		201
Jun 9-15	89.3	130.4		145
Jun 16-22	98.4	124.9		139
Jun 23-29	95.4	109.9		129

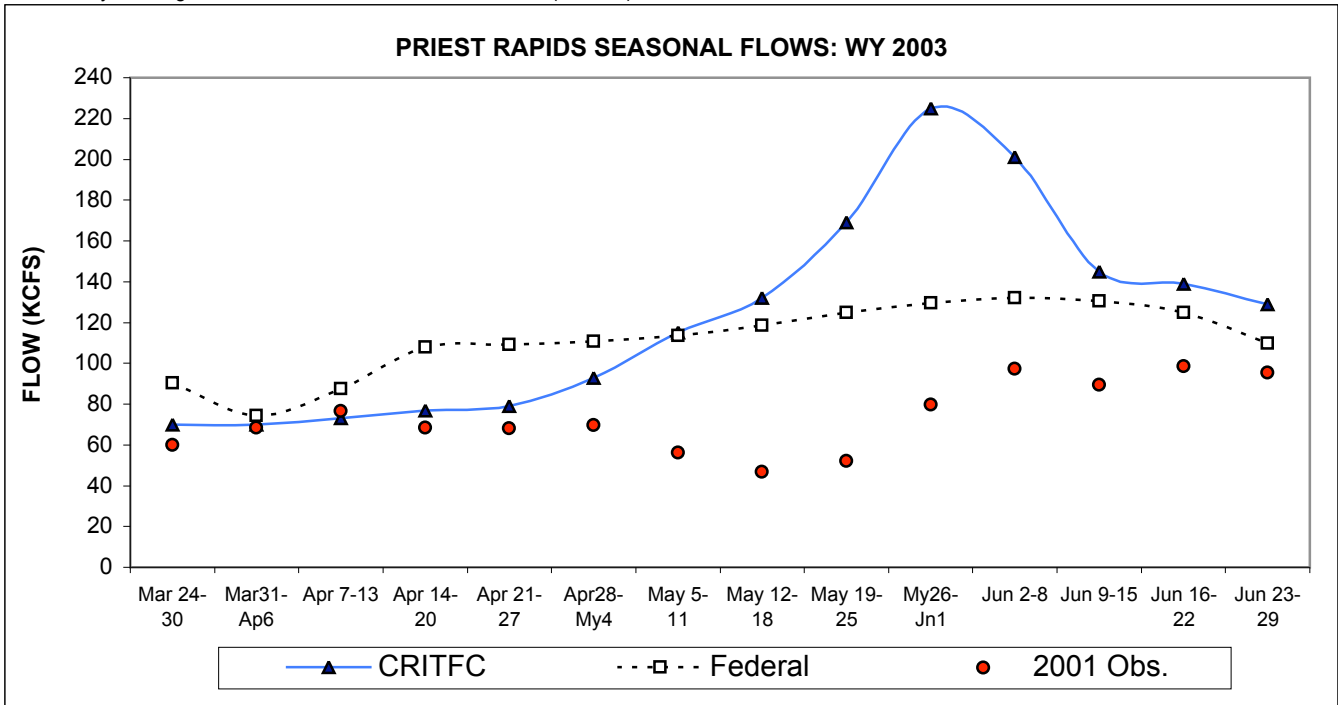
Wenatchee at Peshastin (kcfs)	Lake Chelan (kcfs)	Methow at Pateros (kcfs)	Okanogan Tonasket (kcfs)	Columbia at Coulee (CRITFC) (kcfs)
Observed (shaded)	Observed (shaded)	Observed (shaded)	Observed (shaded)	
1.9	2.2	0.6	1.5	64
2.2	2.2	0.8	1.4	63
2.5	2.2	1.0	1.4	66
2.6	2.2	1.0	1.8	69
3.0	2.2	1.0	2.6	70
3.5	2.2	1.2	3.5	83
4.8	2.2	1.7	4.6	102
6.5	2.2	3.1	6.3	114
8.2	2.2	4.7	9.0	145
9.5	2.2	5.8	11.1	196
10.2	2.2	6.1	12.6	170
9.3	6.6	5.4	12.5	111
7.4	4.2	4.2	10.5	113
5.5	2.2	3.3	8.3	110

APR - JUN: (in KaF)	13,408	20,451	22,865	Sum Total: 21,993
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Tributary Monthly Totals (KaF):				
1,045	486	544	1,190	18,728

CRITFC Hydro Program

RFS-STP Inflow (3-12-03)



OUTFLOW SUMMATION AND BALANCE

18-Mar-03

(kcfs)	Lower Columbia		Lower Snake				Upper Columbia							
	TDA	TDA local	LWG	BRN	DWR	PRD	GCL	GCL local	ARDB	Queens Bay	LIB	ALF	ALF Local	HGH
Mar 24-30	130	18	42	12.0	3.0	70	64	29	10	9	4	16	16	0.4
Mar31-Apr6	130	15	45	16.0	3.0	70	63	32	20	9	4	16	16	0.4
Apr 7-13	140	14	53	17.0	8.0	73	66	25	30	7	4	18	18	0.4
Apr 14-20	150	14	59	18.8	10.0	77	69	23	35	7	4	20	20	0.4
Apr 21-27	160	14	67	19.2	14.0	79	70	20	39	8	4	22	22	0.4
Apr28-May4	180	13	74	19.0	14.0	93	83	34	35	10	4	25	25	0.4
May 5-11	210	12	83	19.0	14.0	115	102	38	32	20	4	33	33	0.4
May 12-18	240	12	96	18.0	14.0	132	114	43	19	30	4	42	42	0.4
May 19-25	290	11	110	20.0	14.0	169	145	49	35	40	4	45	45	0.4
My26-Jn1	360	10	125	27.0	14.0	225	196	78	60	34	4	49	49	0.4
Jun 2-8	330	9	120	18.0	12.0	201	170	59	58	34	4	45	45	0.4
Jun 9-15	270	8	117	11.5	14.0	145	111	0	46	36	8	44	44	0.4
Jun 16-22	230	7	84	8.3	3.0	139	113	-6	45	38	18	44	44	0.4
Jun 23-29	200	7	64	8.3	1.4	129	110	-6	46	37	24	37	37	0.4

Mica min: 0.1 - 10 kcfs
 Arrow min: 5 -10 kcfs
 Libby min: 4 kcfs
 Hungry Horse min: 0.5 kcfs
 Queens Bay min: 5 kcfs
 Queens Bay max: 38 kcfs
 Brownlee max: 25 kcfs
 Hells Canyon max: 32 kcfs