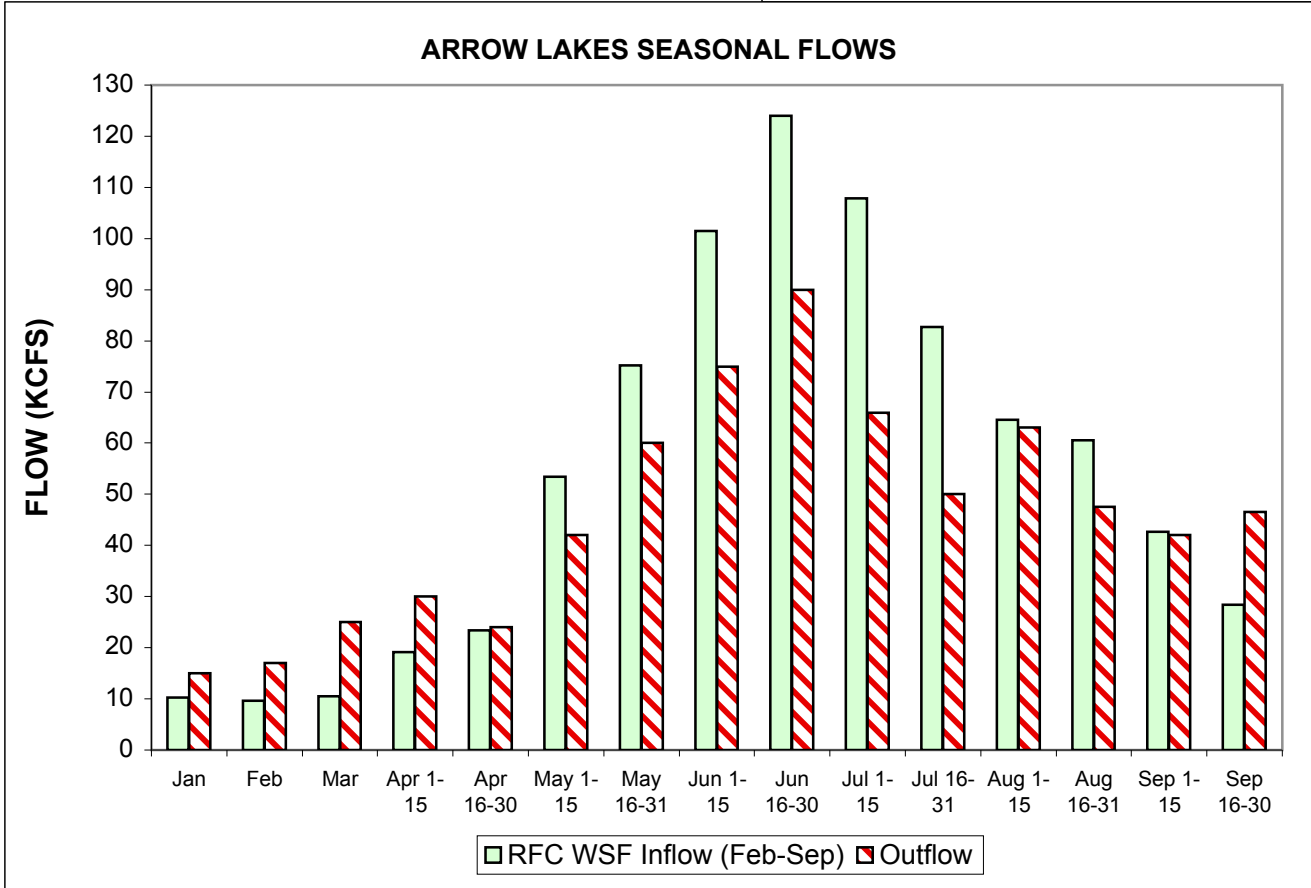
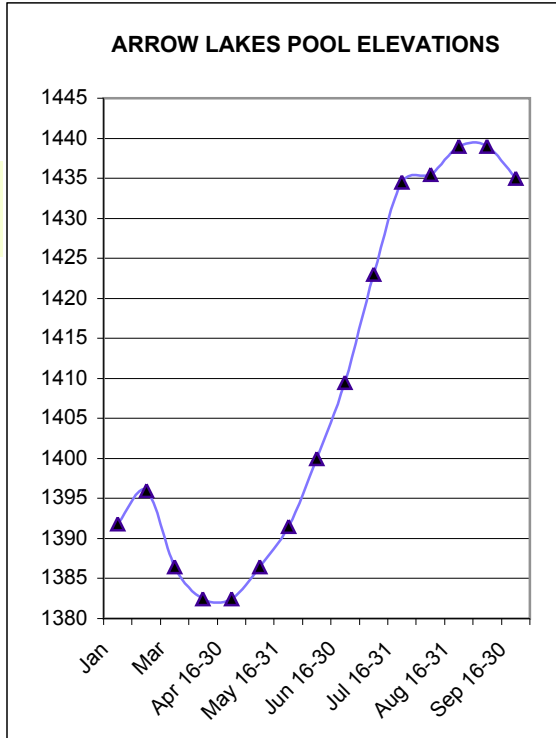


Columbia River at Arrow Lakes (ARDB)

07-mar-02	Outflow (CRITFC)	RFC WSF Inflow (kcfs)	93%	NTS	Storage Change (KaF)	Arrow Pool Elevation (feet)
Dec						1390.0
Jan	15	10			-289	1391.8
Feb	17	10			-409	1396.0
Mar	25	10			-894	1386.5
Apr 1-15	30	19			-322	1382.5
Apr 16-30	24	23			-17	1382.5
May 1-15	42	53			341	1386.5
May 16-31	60	75			482	1391.5
Jun 1-15	75	101			788	1400.0
Jun 16-30	90	124			1013	1409.5
Jul 1-15	66	108	300		1546	1423.0
Jul 16-31	50	83	300		1339	1434.5
Aug 1-15	63	65	100		148	1435.5
Aug 16-31	47.5	61	50		439	1439.0
Sep 1-15	42	43	0		19	1439.0
Sep 16-30	46.5	28	0		-538	1435.0
Total (KaF):	21,693	24,878	750		3935	

CRITFC Hydro Program

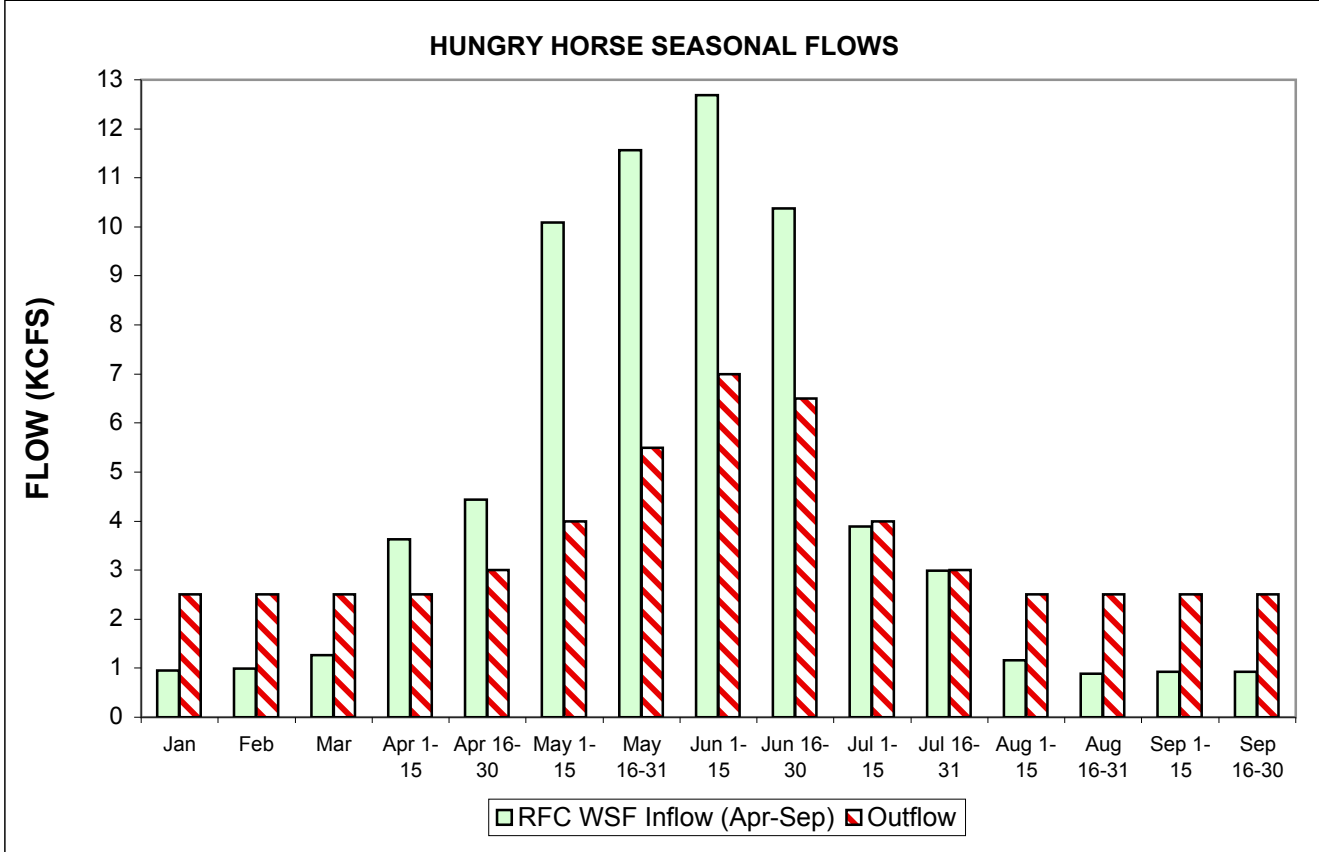
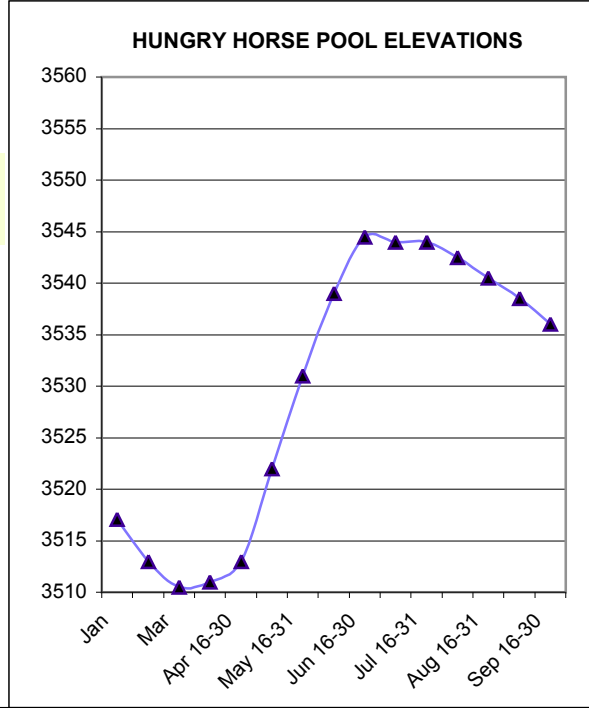
prelim MAR 2002 WS FORECAST



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

07-mar-02	Outflow RFC WSF Inflow (Apr-Sep)		HGH Pool
WY 2002	(CRITFC)	88%	Elevation
"VARQ"	(kcfs)	(kcfs)	(feet)
			end-of-period
Dec			3520.0
Jan	2.5	1	3517.1
Feb	2.5	1	3513.0
Mar	2.5	1	3510.5
Apr 1-15	2.5	4	3511.0
Apr 16-30	3.0	4	3513.0
May 1-15	4.0	10	3522.0
May 16-31	5.5	12	3531.0
Jun 1-15	7.0	13	3539.0
Jun 16-30	6.5	10	3544.5
Jul 1-15	4.0	4	3544.0
Jul 16-31	3.0	3	3544.0
Aug 1-15	2.5	1	3542.5
Aug 16-31	2.5	1	3540.5
Sep 1-15	2.5	1	3538.5
Sep 16-30	2.5	1	3536.0
Total (KaF):	1,376	1,923	550

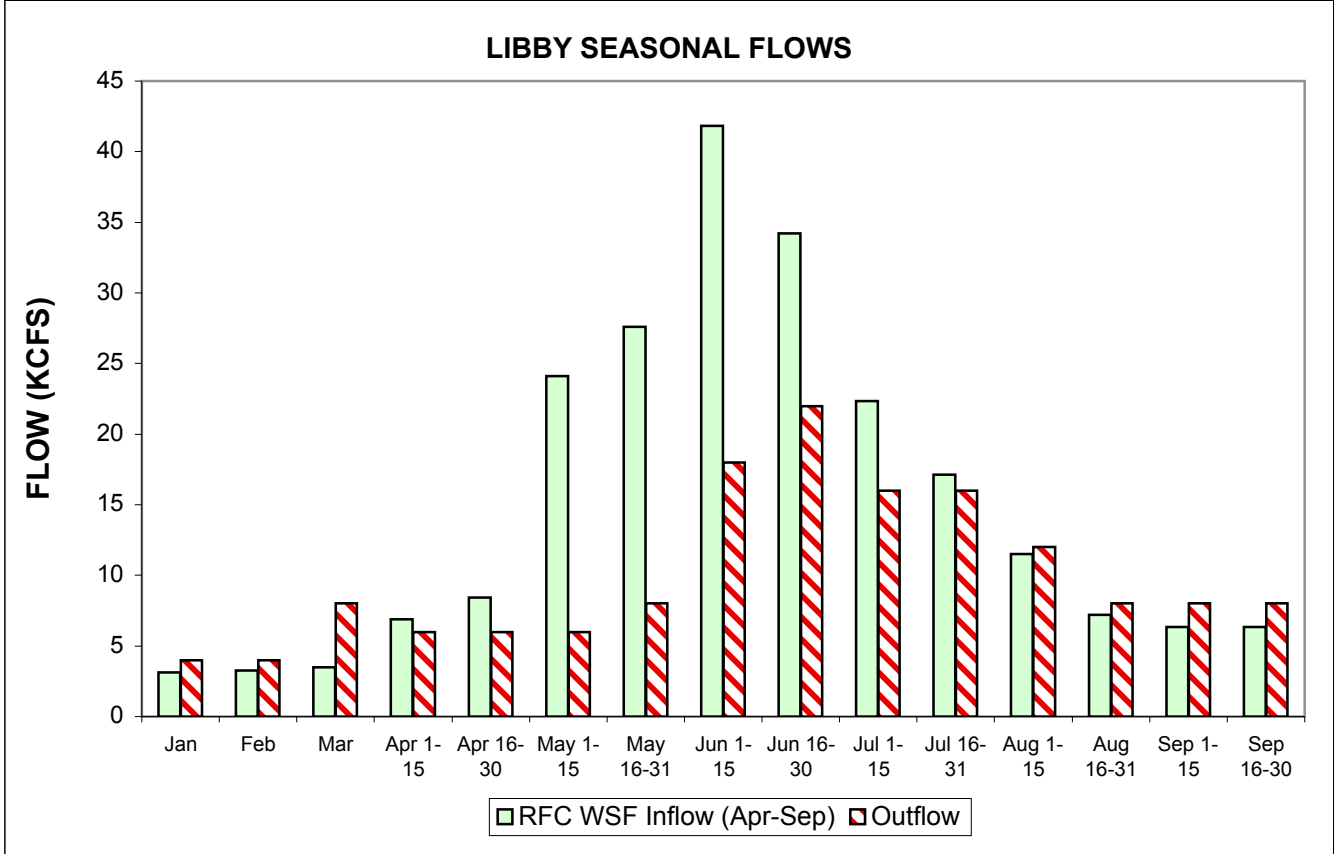
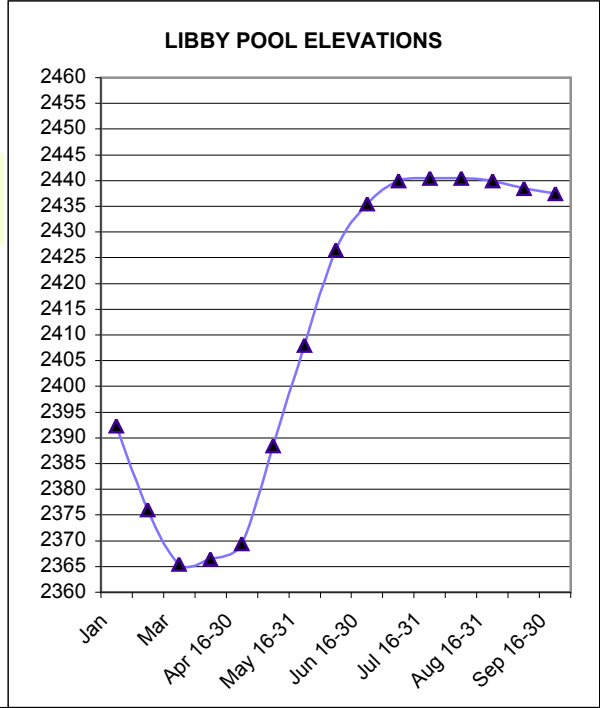
CRITFC Hydro Program **prelim MAR 2002 WS FORECAST**



Kootenay River at Libby (LIB)

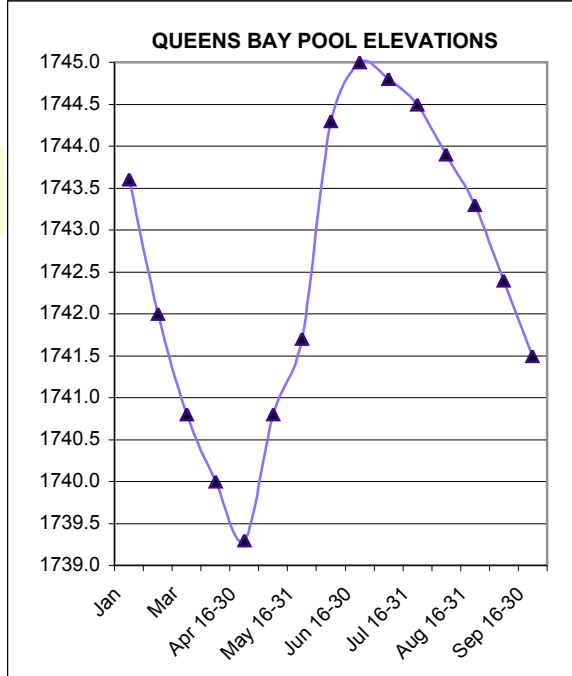
07-mar-02	Outflow	RFC WSF Inflow (Apr-Sep)	Libby Pool
WY 2002	(CRITFC)	96%	Storage
"VARQ"	(kcfs)	(kcfs)	Change
			(KaF)
			end-of-period
			Elevation
			(feet)
Dec			2410.5
Jan	4	3	-53
Feb	4	3	-41
Mar	8	3	-277
Apr 1-15	6	7	27
Apr 16-30	6	8	73
May 1-15	6	24	538
May 16-31	8	28	622
Jun 1-15	18	42	708
Jun 16-30	22	34	363
Jul 1-15	16	22	188
Jul 16-31	16	17	36
Aug 1-15	12	12	-14
Aug 16-31	8	7	-24
Sep 1-15	8	6	-49
Sep 16-30	8	6	-49
Total (KaF):	4,053	6,470	2419

CRITFC Hydro Program **prelim MAR 2002 WS FORECAST**

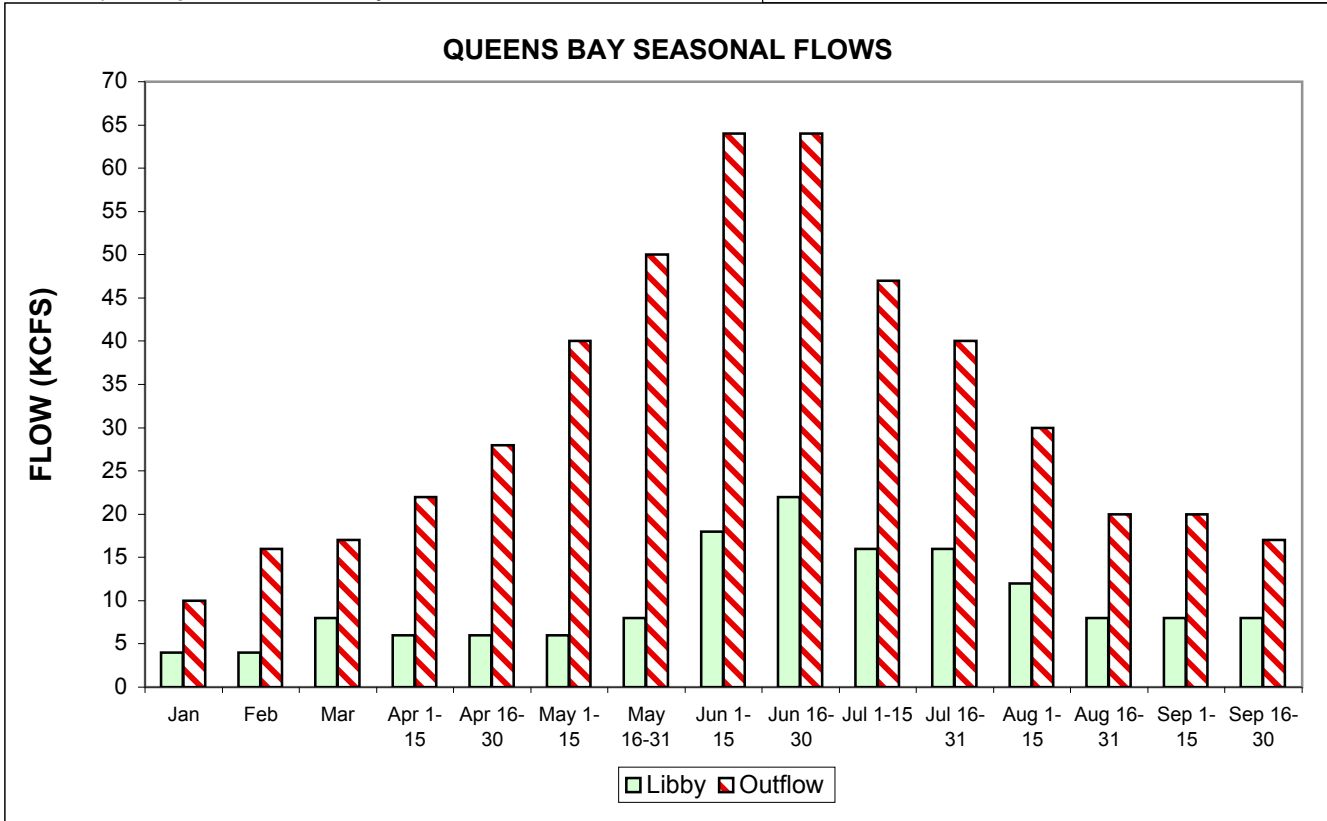


Kootenay River at Queens Bay (QBYB)

07-mar-02	Outflow Libby	RFC WSF Inflow (F-S)	Pool Elevation
WY 2002	Outflow (CRITFC) (kcfs)	Local (CRITFC) (kcfs)	Storage Change (KaF)
		95%	end-of-period
Dec			1742.5
Jan	10	4	1743.6
Feb	16	4	1742.0
Mar	17	8	1740.8
Apr 1-15	22	6	1740.0
Apr 16-30	28	6	1739.3
May 1-15	40	6	1740.8
May 16-31	50	8	1741.7
Jun 1-15	64	18	1744.3
Jun 16-30	64	22	1745.0
Jul 1-15	47	16	1744.8
Jul 16-31	40	16	1744.5
Aug 1-15	30	12	1743.9
Aug 16-31	20	8	1743.3
Sep 1-15	20	8	1742.4
Sep 16-30	17	8	1741.5
Total (KaF):	13,368	4,053	9,386
			73

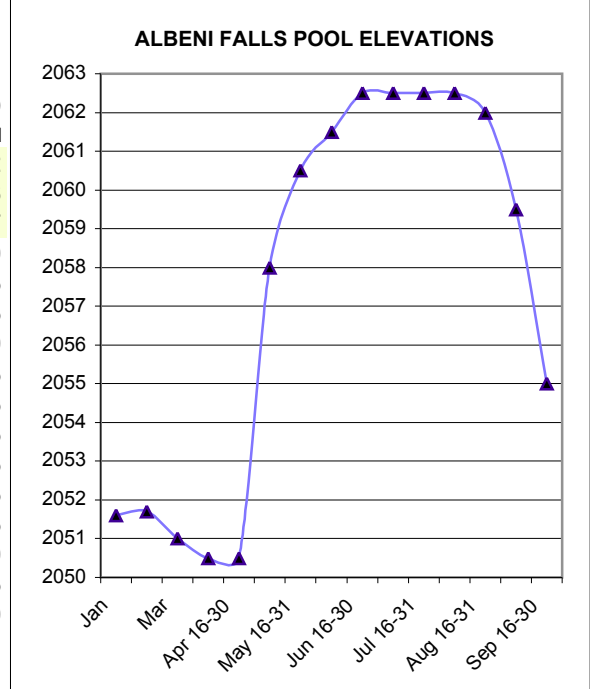


CRITFC Hydro Program **prelim MAR 2002 WS FORECAST**

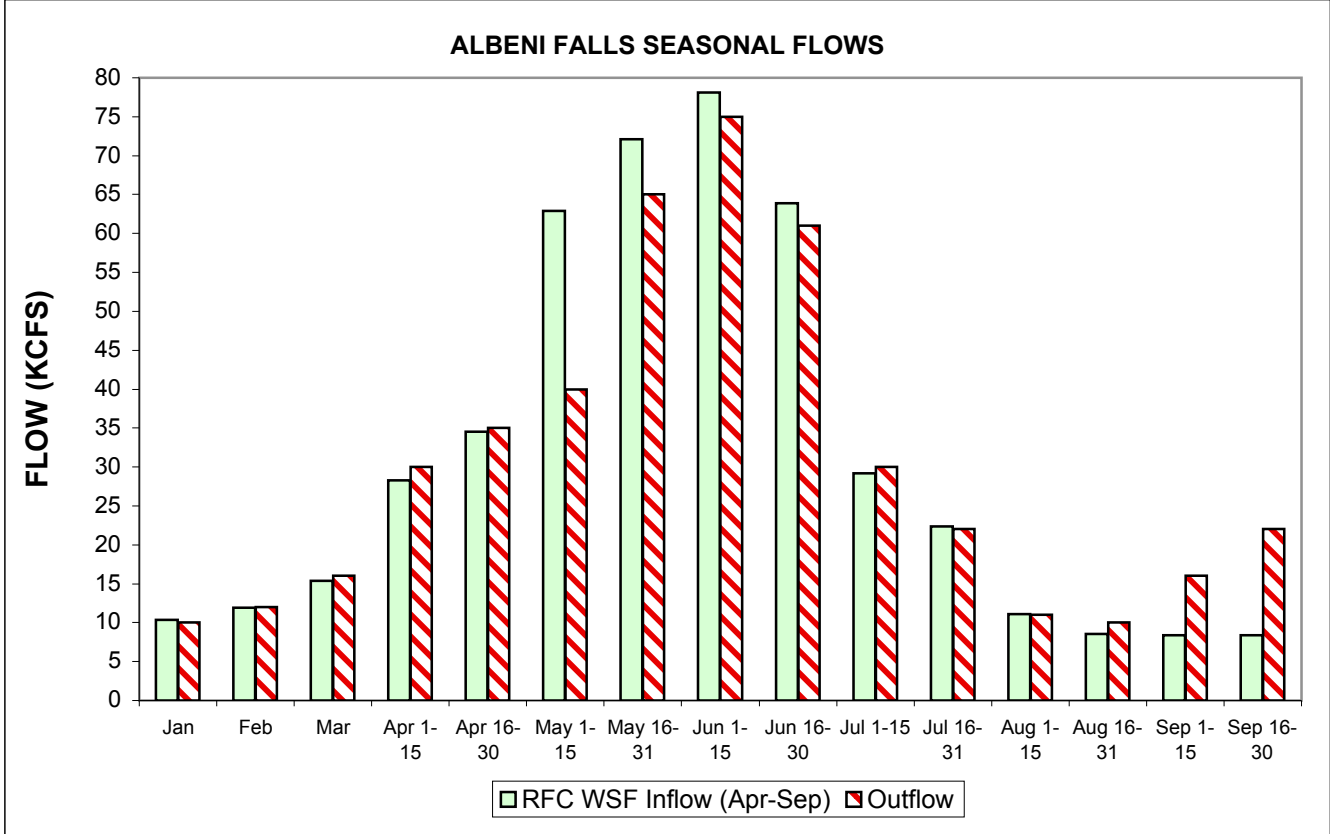


Pend O'Reille River at Albeni Falls (ALF)

07-mar-02	Outflow	RFC WSF Inflow (Apr-Sep)	ALF Pool Elevation
WY 2002	(CRITFC)	90%	(feet)
	(kcfs)	(kcfs)	end-of-period
			(KaF)
Dec			2051.2
Jan	10	10	2051.6
Feb	12	12	2051.7
Mar	16	15	2051.0
Apr 1-15	30	28	2050.5
Apr 16-30	35	35	2050.5
May 1-15	40	63	2058.0
May 16-31	65	72	2060.5
Jun 1-15	75	78	2061.5
Jun 16-30	61	64	2062.5
Jul 1-15	30	29	2062.5
Jul 16-31	22	22	2062.5
Aug 1-15	11	11	2062.5
Aug 16-31	10	9	2062.0
Sep 1-15	16	8	2059.5
Sep 16-30	22	8	2055.0
Total (KaF):	12,612	12,937	335 No FC draft

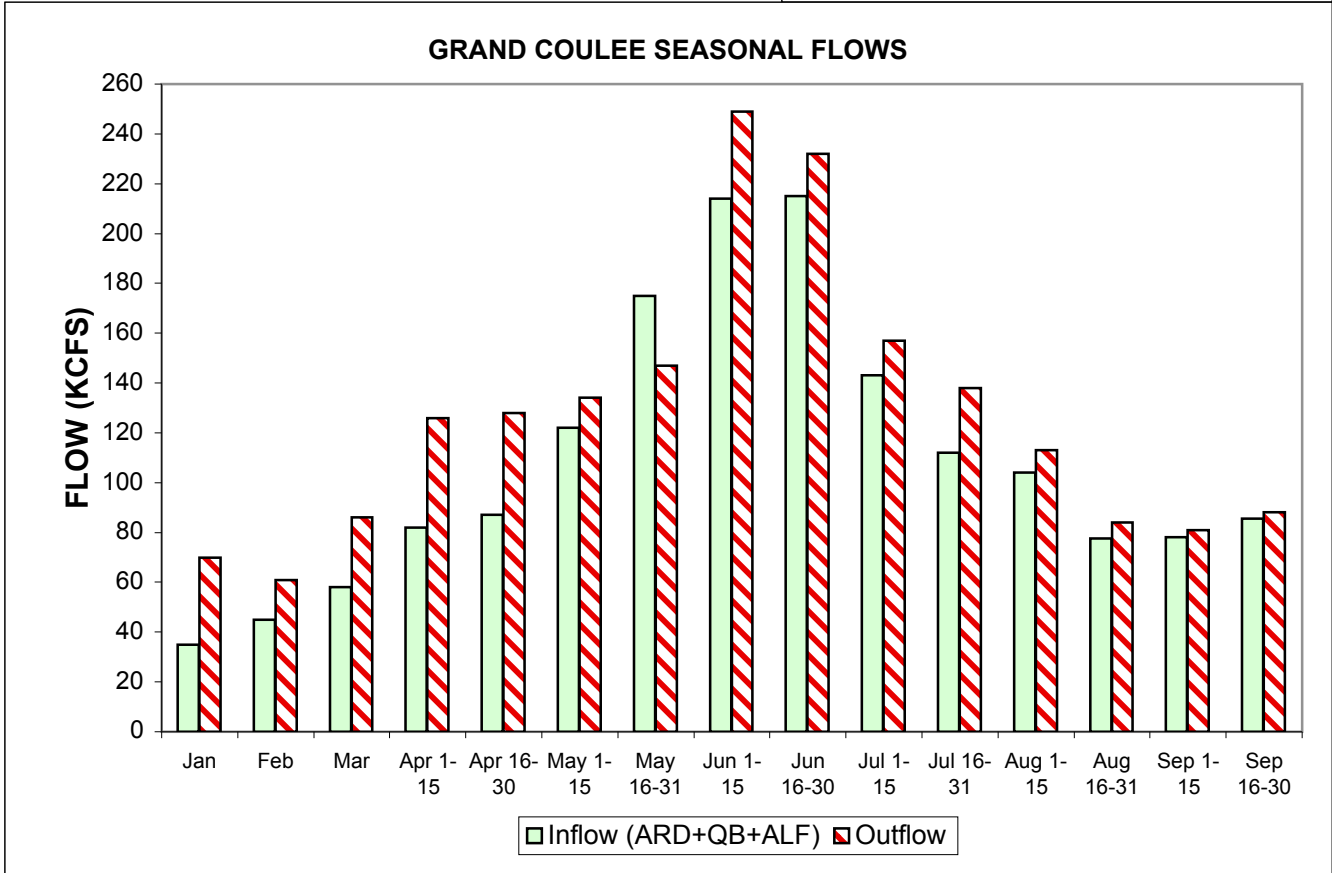
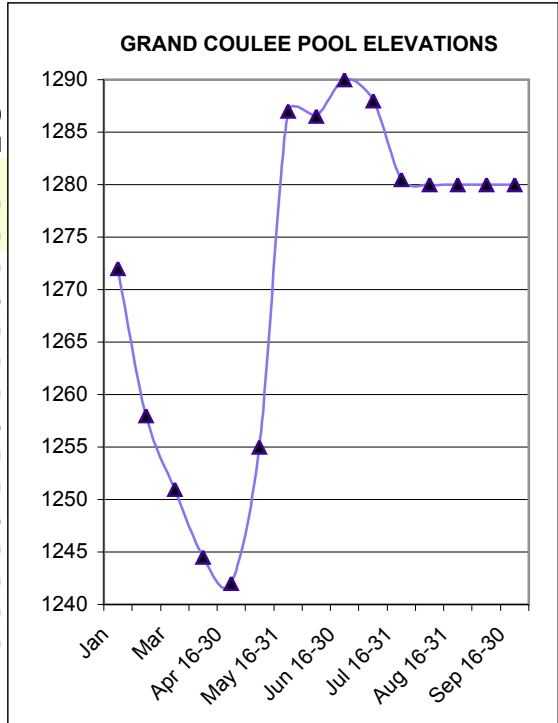


CRITFC Hydro Program **prelim MAR 2002 WS FORECAST**



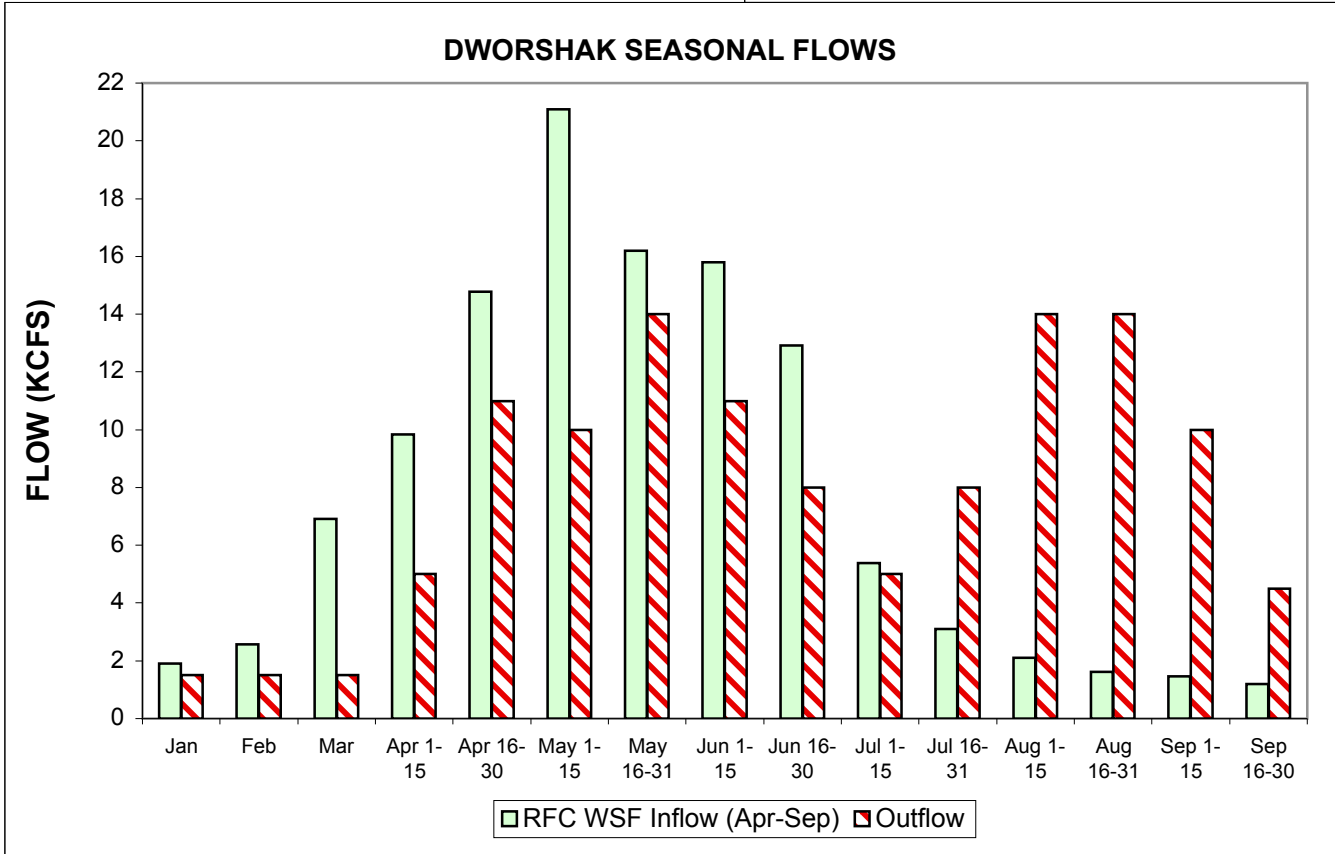
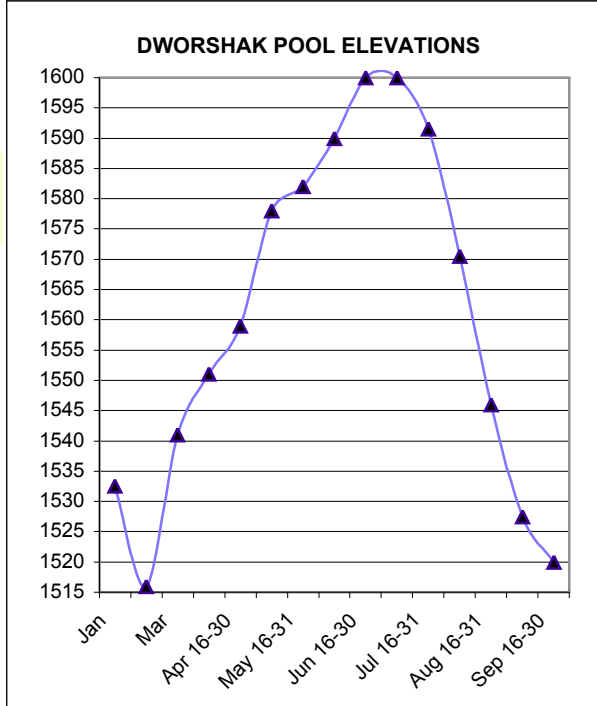
Columbia River at Grand Coulee (GCL)

07-mar-02	Outflow Inflow (ARD+QB+ALF)		Local	Storage	GCL Pool
WY 2002	(CRITFC)	(CRITFC)	104% Flow	Change	Elevation
	(kcfs)	(kcfs)	(kcfs)	(KaF)	(feet)
Dec					1284.2
Jan	70	35	11	-1503	1272.0
Feb	61	45	15	-74	1258.0
Mar	86	58	21	-459	1251.0
Apr 1-15	126	82	31	-430	1244.5
Apr 16-30	128	87	38	-134	1242.0
May 1-15	134	122	46	809	1255.0
May 16-31	147	175	52	2356	1287.0
Jun 1-15	249	214	42	-48	1286.5
Jun 16-30	232	215	34	262	1290.0
Jul 1-15	157	143	15	-118	1288.0
Jul 16-31	138	112	12	-598	1280.5
Aug 1-15	113	104	4	-39	1280.0
Aug 16-31	84	78	3	-1	1280.0
Sep 1-15	81	78	3	5	1280.0
Sep 16-30	88	86	3	2	1280.0
Total (KaF):	50,721	45,216		2067	Banks=260KaF



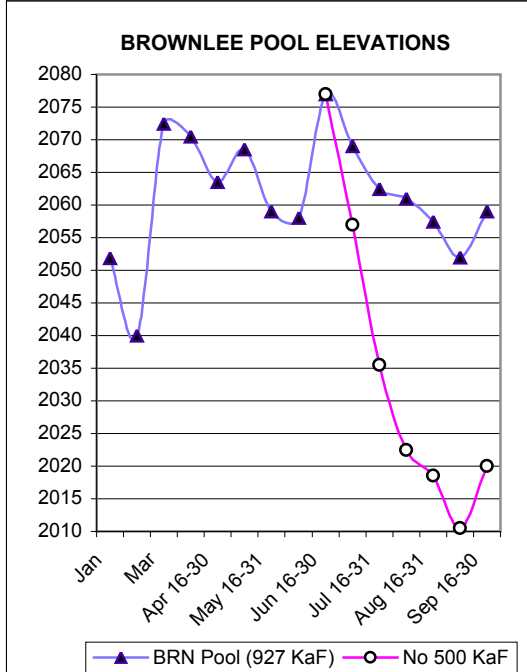
N.F. Clearwater at Dworshak (DWR)

07-mar-02	Outflow (kcf)	RFC WSF Inflow (Apr-Sep) (kcf)	Storage Change (KaF)	DWR Pool Elevation (feet) end-of-period
WY 2002	(CRITFC)	111%		
"NPT-ID Plan"	(kcf)	(kcf)	(KaF)	(feet)
Dec				1523.6
Jan	1.5	1.9	25	1532.6
Feb	1.5	2.6	59	1516.0
Mar	1.5	6.9	332	1541.0
Apr 1-15	5.0	9.8	144	1551.0
Apr 16-30	11.0	14.8	112	1559.0
May 1-15	10.0	21.1	330	1578.0
May 16-31	14.0	16.2	69	1582.0
Jun 1-15	11.0	15.8	142	1590.0
Jun 16-30	8.0	12.9	146	1600.0
Jul 1-15	5.0	5.4	12	1600.0
Jul 16-31	8.0	3.1	-156	1591.5
Aug 1-15	14.0	2.1	-354	1570.5
Aug 16-31	14.0	1.6	-368	1546.0
Sep 1-15	10.0	1.5	-254	1527.5
Sep 16-30	4.5	1.2	-98	1520.0
Total (KaF):	3,463	3,191	-273	No FC draft
CRITFC Hydro Program	prelim MAR 2002 WS FORECAST			

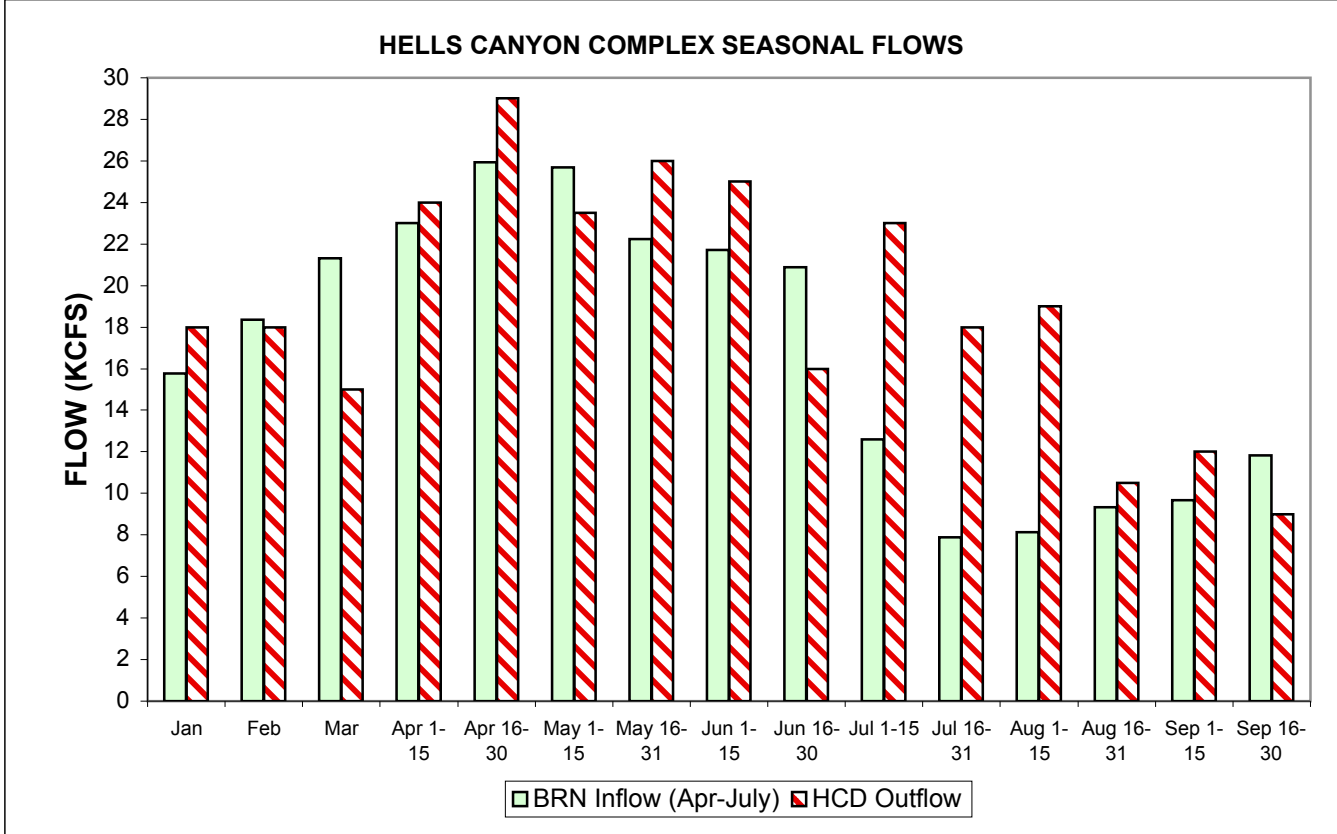


Snake River at Brownlee (BRN)

07-mar-02	HCD Outflow	BRN Inflow (Apr-July)	BRN Pool (No 500 KaF)		
WY 2002	(CRITFC)	79% USnk	Storage	Elevation	Elevation
	(kcfs)		Change	(feet)	(feet)
		Augm.	(KaF)	end-of-period	
		(KaF)			
Dec				2071.4	
Jan	18.0	15.8	-137	2051.9	
Feb	18.0	18.3	19	2040.0	
Mar	15.0	21.3	387	2072.5	
Apr 1-15	24.0	23.0	-30	2070.5	
Apr 16-30	29.0	25.9	-91	2063.5	
May 1-15	23.5	25.7	65	2068.5	
May 16-31	26.0	22.2	-120	2059.0	
Jun 1-15	25.0	21.7	87	2058.0	
Jun 16-30	16.0	20.9	100	245	2077.0
Jul 1-15	23.0	12.6	200	-109	2069.0
Jul 16-31	18.0	7.9	240	-81	2062.5
Aug 1-15	19.0	8.1	300	-23	2061.0
Aug 16-31	10.5	9.3	0	-37	2057.5
Sep 1-15	12.0	9.7	0	-69	2052.0
Sep 16-30	9.0	11.8	0	84	2059.0
Total (KaF):	5,580	4,837	927	-131	



CRITFC Hydro Program **prelim MAR 2002 WS FORECAST**

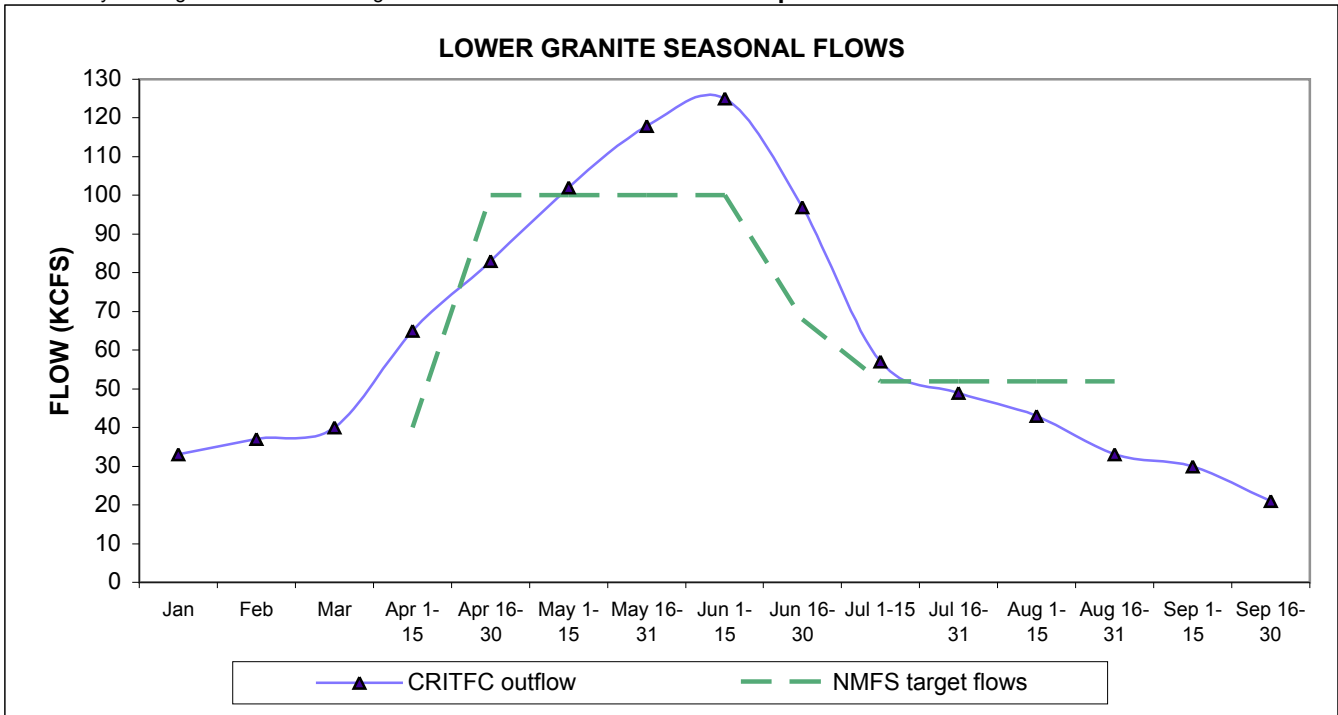


Snake at Lower Granite (LWG)

07-mar-02	RFC WS Forecast (Jan - July)		Local flow:	Grand Ronde at Troy (M-J)	Clearwater at: DWR	Orofino	Salmon at: Whitebird	Snake at: Hells Canyon	NMFS Target	
WY 2002	95%	CRITFC outflow	130%	106%	(CRITFC)	107%	94%	(CRITFC)	Target	
	(KaF)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	
			Component							
			Totals:							
Jan	2119	33	33	2.4	2.4	1.5	4.5	4.4	18	
Feb	2331	37	37	3.7	3.3	1.5	5.7	4.7	18	
Mar	3229	40	40	5.6	4.4	1.5	8.1	5.6	15	
Apr 1-15	2009	65	65	6.4	5.5	5	14.3	9.6	24	
Apr 16-30	2456	83	83	6.6	6.7	11	17.5	11.7	29	
May 1-15	3579	102	102	5.9	6.5	10	28.5	23.5	100	
May 16-31	3304	118	118	6.7	7.5	14	32.7	31.1	26	
Jun 1-15	3553	125	125	7.1	6.5	11	31.8	43.2	25	
Jun 16-30	3151	97	97	5.8	5.4	8	26.0	35.3	16	
Jul 1-15	1286	57	57	2.1	2.3	5	8.8	15.8	23	
Jul 16-31	1187	49	49	2.0	2.2	8	6.7	12.1	18	
Aug 1-15	656	43	43	0.5	0.9	14	2.5	5.7	19	
Aug 16-31	630	33	33	0.4	0.9	14	2.3	5.3	10.5	
Sep 1-15	642	30	30	0.2	0.8	10	2.1	4.6	12	
Sep 16-30	642	21	21	0.2	0.8	4.5	2.1	4.6	9	

	Sum Total:			Tributary Monthly Totals (KaF):					
JAN-JUL =	28,203	27,595	27,548	1,986	1,889	2,445	6,116	6,498	8,615
FEB-SEP	28,654	29,396	31,880	1,875	1,845	3,639	8,647	6,836	9,038

CRITFC Hydro Program NMFS target flows **prelim MAR 2002 WS FORECAST**

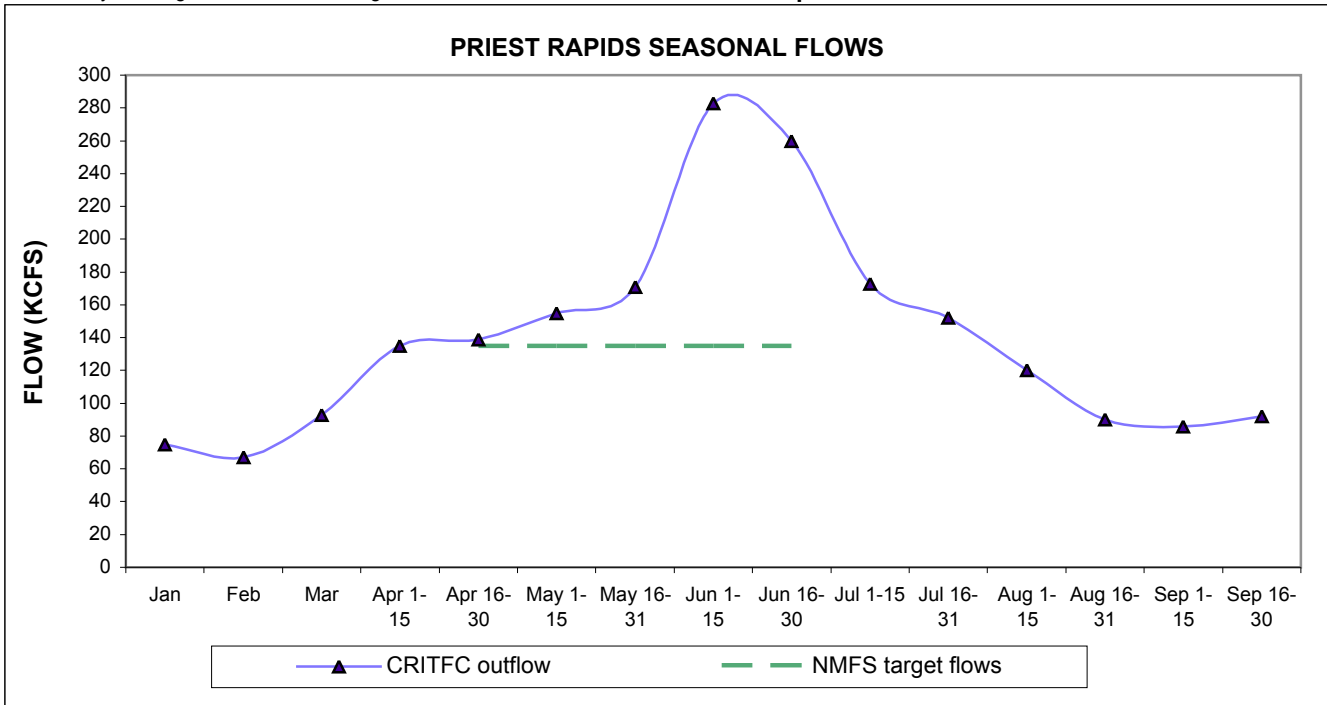


Columbia River at Priest Rapids (PRD)

07-mar-02	RFC RIS WS Forecast (Apr-Sep)	Local flow	Wenatchee at Peshastin	Lake Chelan	Methow at Pateros	Okanogan Tonasket	Columbia at Coulee	NMFS Target
WY 2002	96% CRITFC outflow	100%	101%	(CRITFC)	98%	95%	(CRITFC)	Target
	(KaF)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)
		Component						
		Totals:						
Jan	2626	75	0.1	1.7	2.2	0.4	1.1	70
Feb	2685	67	0.7	1.7	2.2	0.4	1.2	61
Mar	3794	93	1.4	2.0	2.2	0.6	1.4	86
Apr 1-15	3610	135	0.5	3.2	2.2	1.3	2.0	126
Apr 16-30	4693	139	0.6	3.9	2.2	1.6	2.4	128
May 1-15	10283	155	0.8	6.9	2.2	4.4	6.9	134
May 16-31	7712	171	0.9	7.9	2.2	5.1	7.9	147
Jun 1-15	10022	283	4.3	10.1	2.2	6.5	10.8	249
Jun 16-30	8352	260	3.5	8.3	2.2	5.3	8.8	232
Jul 1-15	6366	173	2.7	5.2	2.2	2.3	4.1	157
Jul 16-31	5876	152	2.5	4.0	2.2	1.8	3.1	138
Aug 1-15	3901	120	0.5	1.7	2.2	0.7	1.5	113
Aug 16-31	3186	90	0.5	1.6	2.2	0.6	1.4	84
Sep 1-15	2067	86	0.1	0.9	2.2	0.4	1.0	81
Sep 16-30	1760	92	0.1	0.7	2.2	0.4	0.8	88

	RIS	PRD	Sum Total:	Tributary Monthly Totals (KaF):					
JAN-JUL =	66,018	58,381	58,452	606	1,815	925	940	1,604	52,562
APR-SEP	67,827	56,134	56,125	511	1,641	798	923	1,531	50,721

CRITFC Hydro Program NMFS target flows **prelim MAR 2002 WS FORECAST**



Columbia River at The Dalles (TDA)

07-mar-02 RFC WS Forecast (Jan. - July)

WY 2002 91% CRITFC outflow
(94 MaF, Jan. - July)
(KaF) (kcfs) Component

	The Dalles Local	Deschutes at Moody	John Day at Service Crk	Yakima@ Parker	PRD+ LWG	2000 Obs Flows	NMFS Target
	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)	(kcfs)
Jan	3.5	7.4	2.3	4.4	108	195	
Feb	5.6	7.7	2.9	4.7	104	184	
Mar	4.6	7.5	4.3	5.2	133	183	
Apr 1-15	3.1	5.3	4.9	6.5	200	227	
Apr 16-30	2.9	6.5	6.0	7.9	222	305	185
May 1-15	2.3	5.7	5.0	10.1	257	273	252
May 16-31	1.8	6.5	5.8	11.6	289	271	252
Jun 1-15	2.5	6.0	3.1	10.3	408	211	252
Jun 16-30	2.0	4.9	2.6	8.4	357	197	252
Jul 1-15	0.7	4.9	0.8	4.0	230	170	200
Jul 16-31	0.7	4.6	0.6	3.1	201	158	200
Aug 1-15	0.5	4.7	0.2	1.6	163	157	200
Aug 16-31	0.5	4.7	0.2	1.6	123	121	200
Sep 1-15	0.3	4.6	0.2	1.7	116	109	
Sep 16-30	0.3	4.6	0.2	1.7	113	116	

	(KaF)	(kcfs)	Component
Totals:			
Jan	5439	125	125
Feb	5880	125	125
Mar	7907	155	155
Apr 1-15	5439	220	220
Apr 16-30	6648	245	245
May 1-15	11080	280	280
May 16-31	12494	315	315
Jun 1-15	14195	430	430
Jun 16-30	12588	375	375
Jul 1-15	7454	240	240
Jul 16-31	6881	210	210
Aug 1-15	3917	170	170
Aug 16-31	3764	130	130
Sep 1-15	2713	123	123
Sep 16-30	2505	120	120

	(KaF)	(kcfs)	Component
Sum Total:			
JAN-JUL =	96,006	94,113	94,115
APR-SEP	89,677	86,440	86,438

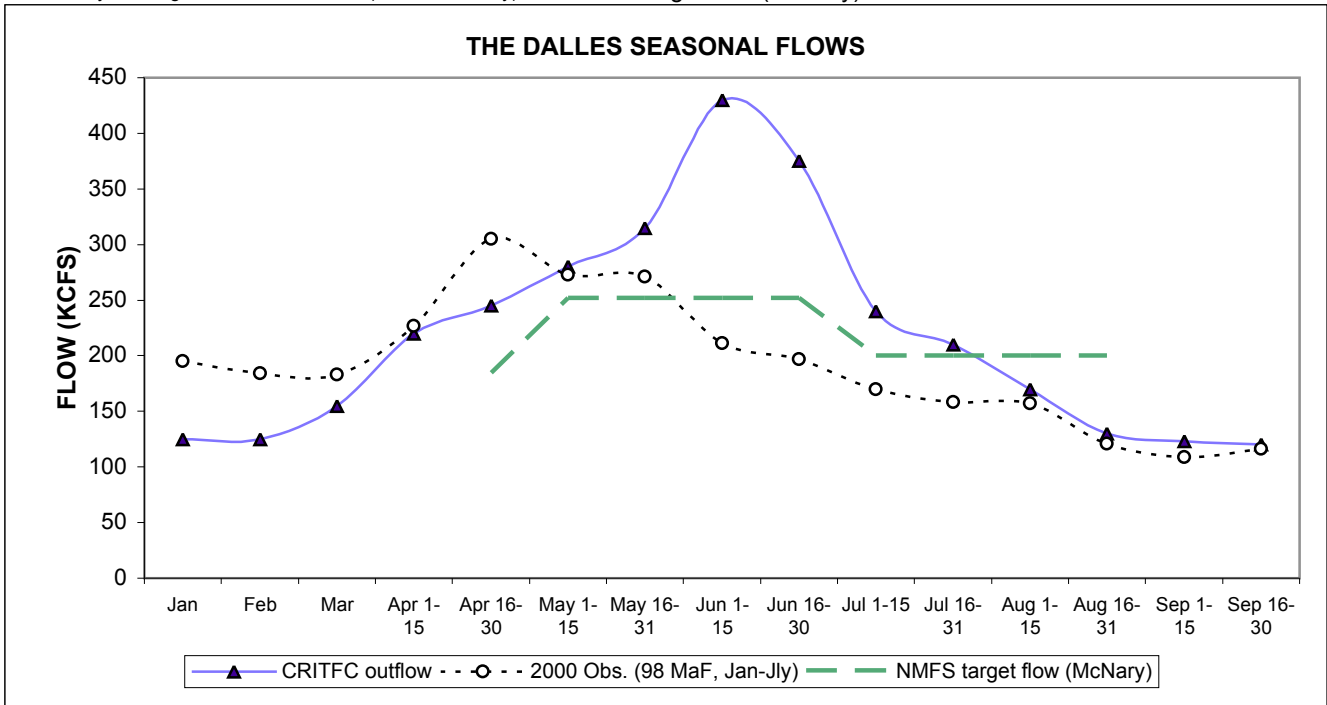
Tributary Monthly Totals (KaF):

1,293	2,681	1,441	2,723	85,977
535	1,905	901	2,071	81,026

prelim MAR 2002 WS FORECAST

CRITFC Hydro Program 2000 Obs. (98 MaF, Jan-Jly)

NMFS target flow (McNary)



BYPASS SPILL FOR FISH
prelim MAR 2002 WS FORECAST
07-mar-02

Lower Columbia

Lower Snake

(kcf)	BON	TDA	JDA	MCN	IHR	LMN	LGS	LWG
Mar 20-31	100	24	22	69	24	10	15	13.5
Apr 1-15	100	105	93	103	72.5	30	45	36
Apr 16-30	100	116	104	115	70	30	45	36
May 1-15	100	134	114	134	65	30	45	36
May 16-31	100	151	128	150	65	30	45	36
Jun 1-15	100	208	171	209	65	30	45	36
Jun 16-30	100	181	149	183	65	0	37.5	36
Jul 1-15	100	115	97	117	65	0	37.5	36
Jul 16-31	100	101	85	102	65	0	37.5	36
Aug 1-15	100	81	72	82	70	0	37.5	36
Aug 16-31	100	62	55	62	72.5	0	37.5	36
Sep 1-15	100	58	54	59	72.5	0	37.5	36

Note: Above values are the average of day and night spill operations. Consult text for specifics.

RESERVOIR STORAGE DIFFERENCES (SPRING ONLY)

Grand Coulee

Dworshak

(KaF)	CRITFC	Federal (COE URC)	Diff.	(KaF)	CRITFC	Federal (COE URC)	Diff.
Feb. 28th	2817	2817	0	Feb. 28th	735	735	0
March 31st	2364	1964	400	March 31st	1069	688	381
April 15th	1927	1874	53	April 15th	1210	780	430
April 30th	1795	1782	13	April 30th	1327	1183	144
May 31st	4951	3111	1840	May 31st	1692	1657	35
June 30th	5185	4951	234	June 30th	2015	2015	0
Total Difference:			2540	Total Difference:			990

Libby

Brownlee

(KaF)	CRITFC	Federal (COE URC)	Diff.	(KaF)	CRITFC	Federal (COE URC)	Diff.
Feb. 28th	1886	1886	0	Feb. 28th	471	471	0
March 31st	1606	1722	-116	March 31st	914	620	294
April 15th	1631	1536	95	April 15th	886	630	256
April 30th	1709	1665	44	April 30th	795	625	170
May 31st	2874	2774	100	May 31st	741	901	-160
June 30th	3943	4345	-402	June 30th	975	975	0
Total Difference:			-279	Total Difference:			560

Sum Total: **3,811** (assumes Feb. 28th elevations)
Sum Total: **9,200** (assumes Jan. 31st elevations)

OUTFLOW SUMMATION AND BALANCE

prelim MAR 2002 WS FORECAST

07-mar-02

(kcfs)	Lower Columbia			Lower Snake			Upper Columbia							
	TDA	Local	LWG	BRN	DWR	PRD	GCL	Local	ARDB	Queens Bay	LIB	ALF	Local	HGH
Jan	125	17	33	18	2	75	70	46	15	10	4	10	8	2.5
Feb	125	21	37	18	2	67	61	31	17	16	4	12	10	2.5
Mar	155	22	40	15	2	93	86	49	25	17	8	16	14	2.5
Apr 1-15	220	20	65	24	5	135	126	75	30	22	6	30	28	2.5
Apr 16-30	245	23	83	29	11	139	128	79	24	28	6	35	32	3
May 1-15	280	23	102	24	10	155	134	58	42	40	6	40	36	4
May 16-31	315	26	118	26	14	171	147	24	60	50	8	65	60	5.5
Jun 1-15	430	22	125	25	11	283	249	77	75	64	18	75	68	7
Jun 16-30	375	18	97	16	8	260	232	51	90	64	22	61	55	6.5
Jul 1-15	240	10	57	23	5	173	157	29	66	47	16	30	26	4
Jul 16-31	210	9	49	18	8	152	138	38	50	40	16	22	19	3
Aug 1-15	170	7	43	19	14	120	113	13	63	30	12	11	9	2.5
Aug 16-31	130	7	33	11	14	90	84	10	48	20	8	10	8	2.5
Sep 1-15	123	7	30	12	10	86	81	6	42	20	8	16	14	2.5
Sep 16-30	120	7	21	9	5	92	88	5	47	17	8	22	20	2.5

Mica min: 0.1-10 kcfs
 Arrow min: 5-10 kcfs
 Queens Bay min: 5 kcfs
 Queens Bay max: 38 kcfs
 Brownlee max: 25 kcfs
 Hells Canyon max: 32 kcfs

CRITFC Hydro Program