

Spreadsheet Model Assumptions

- **Weekly time step.**
- **Model focused primarily on meeting interim operations procedure.**
 - Water Supply Demands Not Used.
 - Hydropower Energy Requirements Not Fully Considered.
 - All releases thru turbines when possible
 - Maintain Lakes Within Conservation Storage (Followed Guide Curves for Winter Drawdown and Spring Refill Periods).
 - Operated to balance lakes but did not explicitly match action zones.
 - Operated to Evacuate Flood Storage

- **Basin Inflow based on Monthly Historical Averages & applied to weekly time step.**
- **Model used simplified storage equations.**
- **Spreadsheet not conducive for looking at longer time periods.**
 - **Simulations used 1998-2003 inflow data**
 - **Simulations used 2000-2001 inflow data**
- **Ramping Rates applied only where reduction in discharge spanned weeks.**

Spreadsheet Model Screenshot

Microsoft Excel - ACF_Projections_ESA_1998-2003

File Edit View Insert Format Tools Data Window Help

6/26/1998

1-Mar 31-May Release Min20,400 cfs

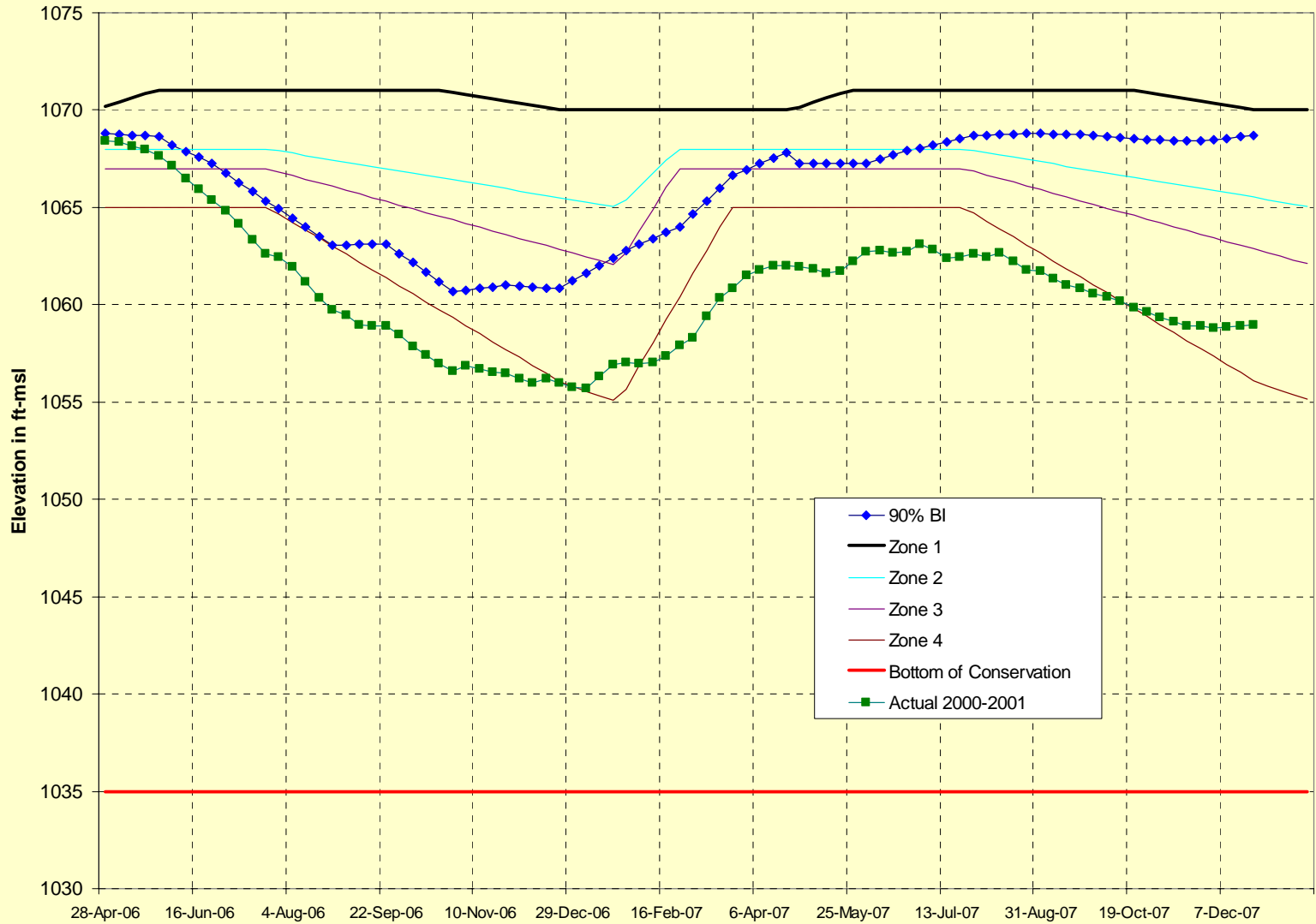
Interim Operations 1998-2003 Flow Conditions Interim Operations Release 16,000cfs
100% Flow below 30,000

6/26/1998	ELEVATION		LOCALS		TOTAL		TOTAL GEN	SLUICE SPILL	HIST LOC	% HIST LOC	Storage	MAX GEN	
	STARTING	ENDING	WEEKLY	DAILY	INFLOW	OUTFLOW	(MWH)	(MWH)					
7	BUFORD	1071.12	1071.06	6846	978	6846	8000	2000	0	1409	69%	987137	
8	WEST POINT	635.61	635.05	5145	735	13145	19331	504	2200	2219	33%	305412	
9	GEORGE	189.15	189.44	12467	1781	31798	26000	4000	0	2861	62%	459225	
10	WOODRUFF	77.33	77.40	47502	6786	73502	72100			9918	68%		
11				10280	JWD OUT	10300				100%	16407	63%	1751774
12	WEEK ENDING	3-Jul-98											blst shift 2100
15		ELEVATION		LOCALS		TOTAL		TOTAL GEN	SLUICE SPILL	HIST LOC	% HIST LOC		
16		STARTING	ENDING	WEEKLY	DAILY	INFLOW	OUTFLOW	(MWH)	(MWH)				
17	BUFORD	1071.06	1071.00	6846	978	6846	8000	2000	0	1409	69%	985954	
18	WEST POINT	635.05	635.06	5145	735	13880	13731	504	1400	2219	33%	305588	
19	GEORGE	189.44	189.71	12467	1781	26198	20800	3200	0	2861	62%	465301	
20	WOODRUFF	77.40	77.20	47502	6786	68302	72100			9918	68%		
21				10280	JWD OUT	10300				100%	16407	63%	1756843
22	WEEK ENDING	10-Jul-98											
25		ELEVATION		LOCALS		TOTAL		TOTAL GEN	SLUICE SPILL	HIST LOC	% HIST LOC		
26		STARTING	ENDING	WEEKLY	DAILY	INFLOW	OUTFLOW	(MWH)	(MWH)				
27	BUFORD	1071.00	1071.04	6846	978	6846	6000	1500	0	1409	69%	986821	
28	WEST POINT	635.06	635.02	5145	735	11880	12331	504	1200	2219	33%	305053	
29	GEORGE	189.71	189.78	12467	1781	24798	23400	3600	0	2861	62%	466885	
30	WOODRUFF	77.20	77.14	47502	6786	70902	72100			9918	68%		
31				10280	JWD OUT	10300				100%	16407	63%	1758759
32	WEEK ENDING	17-Jul-98											
35		ELEVATION		LOCALS		TOTAL		TOTAL GEN	SLUICE SPILL	HIST LOC	% HIST LOC		
36		STARTING	ENDING	WEEKLY	DAILY	INFLOW	OUTFLOW	(MWH)	(MWH)				
37	BUFORD	1071.04	1071.09	6846	978	6846	6000	1500	0	1409	69%	987690	
38	WEST POINT	635.07	635.04	5145	735	11880	11631	504	1100	2219	33%	305348	

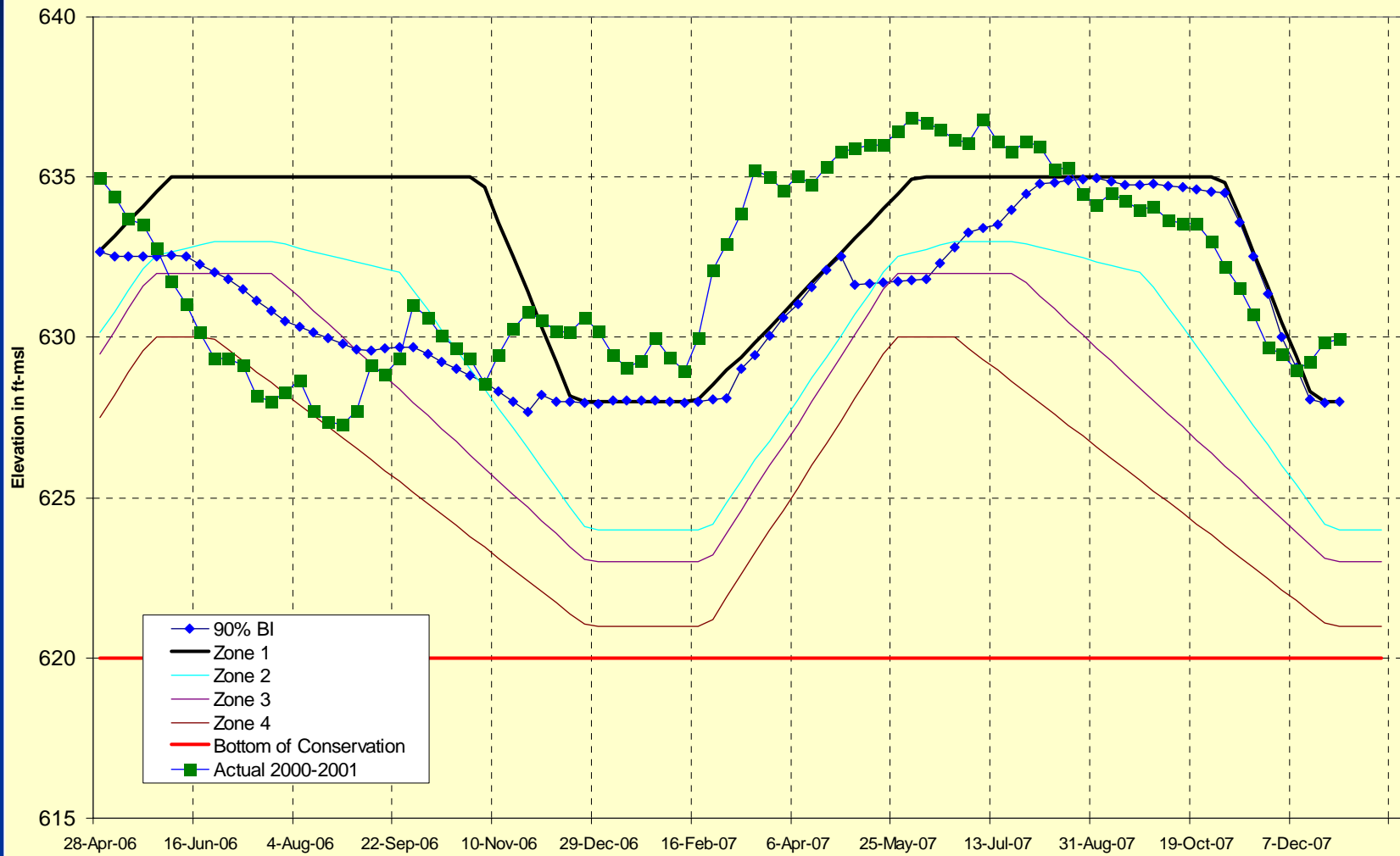
Ready NUM

start 3 Microsoft O... 2 Microsoft O... 3 Microsoft Of... 2 Firefox 4 Microsoft Of... Total Command... 10:00 AM

Lake Lanier



West Point



W. F. George

