

TABLE 2

SW-HI CREST CONFIGURATION (Crest Elev. = 622 ft) -- Constant Qs = 10.7 kcfs for Qr ≤ 40 kcfs

Calc River (kcfs)	PH (kcfs)	Spill (kcfs)	Percent Spill (Note 2)	Forebay WSE (ft) (Note 2)	Powerhouse Flow (kcfs) [Notes 1 & 3]						Spillway Flow (stops) [Note 3]								Total Stops TS	Notes										
					1 (Note 4)	2	3	4	5	6	1	2	3	4	5	6	7	8												
24.7	17.5	7.2	29.0%	633.5	17.5										SW-HI										0	Lowest Qr possible w/ SW-HI (Note 5)				
26.4	17.5	8.9	33.7%	633.5	17.5										SW-HI	1											1			
28.2	17.5	10.7	37.8%	633.5	17.5										SW-HI	1	1											2		
31.5	22.6	8.9	28.3%	633.5	11.3	11.3									SW-HI	1												1	Lowest Qr w/ SW-HI (Note 5)	
33.3	22.6	10.7	32.0%	633.5	11.3	11.3									SW-HI	1	1											2	Lowest Qr w/ SW-HI & constant Qs = 10.7 kcfs (Note 5)	
35.5	24.8	10.7	30.0%	633.5	13.5	11.3									SW-HI	1	1											2		
38.0	27.3	10.7	28.1%	633.5	16.0	11.3									SW-HI	1	1											2		
41.3	28.9	12.4	30.0%	633.5	16.0	12.9									SW-HI	1	1	1											3	
47.2	33.0	14.2	30.0%	633.5	17.5	15.5									SW-HI	1	1	1	1										4	
50.9	35.0	15.9	31.2%	633.5	17.5	17.5									SW-HI	1	1	1	1	1									5	2 units, 5 stops, Qs=31%
54.5	38.6	15.9	29.2%	633.5	16.0	11.3	11.3								SW-HI	1	1	1	1	1									5	3 units, 5 stops, Qs=29%
58.9	41.2	17.7	30.0%	633.5	16.0	12.6	12.6								SW-HI	1	1	1	1	1	1								6	
64.7	45.3	19.4	30.0%	633.5	16.0	14.7	14.6								SW-HI	1	1	1	1	1	1	1							7	
71.0	49.7	21.3	30.0%	633.5	16.6	16.6	16.5								SW-HI	2	1	1	1	1	1	1	1	1					8	
77.3	54.1	23.2	30.0%	633.5	16.0	12.1	12.1	13.9							SW-HI	2	1	2	1	1	1	1	1	1					9	Likely highest Qr w/ SW-HI (Note 6)
83.6	58.5	25.1	30.0%	633.5	16.0	14.2	14.2	14.1							SW-HI	2	1	2	1	2	1	1	1	1					10	
89.9	62.9	27.0	30.0%	633.5	16.0	15.7	15.6	15.6							SW-HI	2	1	2	1	2	1	2	1	2	1				11	
96.2	67.3	28.9	30.0%	633.5	16.9	16.8	16.8	16.8							SW-HI	2	2	2	1	2	1	2	1	2	1				12	
102.4	71.7	30.7	30.0%	633.5	16.0	14.0	13.9	13.9	13.9						SW-HI	2	2	2	2	2	2	1	2	2					13	
108.7	76.1	32.6	30.0%	633.5	16.0	15.1	15.0	15.0	15.0						SW-HI	2	2	2	2	2	2	2	2	2	2				14	
115.4	80.8	34.6	30.0%	633.5	16.2	16.2	16.2	16.1	16.1						SW-HI	3	2	2	2	2	2	2	2	2	2				15	
122.0	85.4	36.6	30.0%	633.5	17.1	17.1	17.1	17.1	17.0						SW-HI	3	3	2	2	2	2	2	2	2	2				16	
128.7	90.1	38.6	30.0%	633.5	16.0	14.9	14.8	14.8	14.8	14.8					SW-HI	3	3	3	2	2	2	2	2	2	2				17	
135.3	94.7	40.6	30.0%	633.5	16.0	15.8	15.8	15.7	15.7	15.7					SW-HI	3	3	3	3	2	2	2	2	2	2				18	
142.0	99.4	42.6	30.0%	633.5	16.6	16.6	16.6	16.6	16.5	16.5					SW-HI	3	3	3	3	3	3	2	2	2	2				19	
148.6	104.0	44.6	30.0%	633.5	17.4	17.4	17.3	17.3	17.3	17.3					SW-HI	3	3	3	3	3	3	3	3	2	2				20	
155.2	108.6	46.6	30.0%	633.5	17.5	17.5	17.5	18.7	18.7	18.7					SW-HI	3	3	3	3	3	3	3	3	3	3			21	Max. PH capacity w/ Qs=30% (Note 7)	
157.7	109.2	48.5	30.8%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	3	3	3	3	3	3	3	3	3				22	
159.7	109.2	50.5	31.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	3	3	3	3	3	3	3	3				23	
161.6	109.2	52.4	32.4%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	4	3	3	3	3	3	3	3				24	
163.6	109.2	54.4	33.3%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	4	4	3	3	3	3	3	3				25	
165.6	109.2	56.4	34.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	4	4	4	3	3	3	3	3				26	
167.5	109.2	58.3	34.8%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	4	4	4	4	4	3	3	3				27	
169.5	109.2	60.3	35.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	4	4	4	4	4	4	4	4	4	4				28	
171.4	109.2	62.2	36.3%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	4	4	4	4	4	4	4	4	4				29	
173.4	109.2	64.2	37.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	4	4	4	4	4	4	4	4				30	
175.3	109.2	66.1	37.7%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	5	4	4	4	4	4	4	4				31	
177.3	109.2	68.1	38.4%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	5	5	4	4	4	4	4	4				32	
179.2	109.2	70.0	39.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	5	5	5	5	4	4	4	4				33	
181.2	109.2	72.0	39.7%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	5	5	5	5	5	4	4	4				34	
183.1	109.2	73.9	40.4%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	5	5	5	5	5	5	5	5	5	5				35	
185.1	109.2	75.9	41.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	5	5	5	5	5	5	5	5	5				36	
187.0	109.2	77.8	41.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	5	5	5	5	5	5	5	5				37	
189.0	109.2	79.8	42.2%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	6	5	5	5	5	5	5	5				38	
190.9	109.2	81.7	42.8%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	6	6	5	5	5	5	5	5				39	
192.9	109.2	83.7	43.4%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	6	6	6	5	5	5	5	5				40	
194.8	109.2	85.6	44.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	6	6	6	6	5	5	5	5				41	
196.8	109.2	87.6	44.5%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	6	6	6	6	6	6	6	6	6	6				42	
198.7	109.2	89.5	45.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	6	6	6	6	6	6	6	6	6				43	
200.7	109.2	91.5	45.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	6	6	6	6	6	6	6	6				44	
202.6	109.2	93.4	46.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	7	6	6	6	6	6	6	6				45	
204.5	109.2	95.3	46.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	7	7	6	6	6	6	6	6				46	
206.5	109.2	97.3	47.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	7	7	7	7	6	6	6	6				47	
208.4	109.2	99.2	47.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	7	7	7	7	7	6	6	6				48	
210.4	109.2	101.2	48.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	7	7	7	7	7	7	7	7	7	7				49	
212.3	109.2	103.1	48.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	8	7	7	7	7	7	7	7	7	7				50	
214.3	109.2	105.1	49.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	8	8	7	7	7	7	7	7	7	7				51	
216.2	109.2	107.0	49.5%	633.5	17.5	17.5	17.5	18.9	18.9	18.9					SW-HI	8	8	8	7	7	7	7	7	7	7				52	
218.2																														

24.7	17.5	7.2	29.0%	633.5	17.5						SW-HI							0	Lowest Qr possible w/ SW-HI (Note 5)
225.9	109.2	116.7	51.7%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	8	8	8	8	8	8	57
227.9	109.2	118.7	52.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	8	8	8	8	8	58
229.8	109.2	120.6	52.5%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	9	8	8	8	8	59
231.7	109.2	122.5	52.9%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	9	9	8	8	8	60
233.6	109.2	124.4	53.3%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	9	9	9	8	8	61
235.5	109.2	126.3	53.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	9	9	9	9	8	62
237.5	109.2	128.3	54.0%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	9	9	9	9	9	9	9	63
239.5	109.2	130.3	54.4%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	9	9	9	9	9	9	64
241.5	109.2	132.3	54.8%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	9	9	9	9	9	65
243.5	109.2	134.3	55.1%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	10	9	9	9	9	66
245.5	109.2	136.3	55.5%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	10	10	9	9	9	67
247.5	109.2	138.3	55.9%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	10	10	10	9	9	68
249.5	109.2	140.3	56.2%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	10	10	10	10	9	69
251.5	109.2	142.3	56.6%	633.5	17.5	17.5	17.5	18.9	18.9	18.9	SW-HI	10	10	10	10	10	10	10	70

- Note 1: Powerhouse unit priority should be Unit 1 ==> 6. Unit 1 operation is especially important to maintain good tailrace conditions for juvenile fish egress and adult fish attraction.
- Note 2: Assume Minimum Operating Pool (MOP) rules apply (i.e. forebay elevation between 633.0 - 634.0 feet).
- Note 3: Discharges shown on this table are based on an average forebay elevation for the specified range (634.5 ft for MOP rules), and are approximate. Particularly the powerhouse discharges are shown as an indication of how the Unit 1 operating restriction will work, not as a precise requirement. Actual operation will change with changing inflow, forebay and tailwater elevations, and other operating constraints and demands.
- Note 4: Unit 1 operation is manually restricted to operate between 115 - 125 MW, which is approximately 16.0 - 17.5 kcfs. Assume Unit 1 will be at the lower end of this range if other units are operating at discharges lower than 16.0 kcfs. Assume other operating units will be operated approximately uniformly, within constraints of normal 1% operation (Units 4-6 are different than Units 1-3). When average unit discharge is higher than 16.0 kcfs, assume all units will operate uniformly, again given different 1% range for Units 4-6. For low river discharges, with only one unit operating, Unit 1 may operate at less than 16 kcfs.
- Note 5: For river discharges less than this value, the SW will be closed, and the remaining spill bays will be used, following the uniform spill pattern (see separate table).
- Note 6: The SW-HI will be installed after river discharge falls below 75 kcfs for three days in a row, and forecasts indicate continuing lower river discharges, or as coordinated with regional fish managers, and will remain in place for the rest of the season, even if river discharges subsequently increase above 75 kcfs.
- Note 7: Above this river discharge, involuntary spill will force a spill ratio higher than 30%.