

COLORADO-BIG THOMPSON MONTHLY OPERATIONS

HYDROLOGY OPERATIONS

Green Mtn Reservoir		Initial Cont Elev 7946.90 ft				Maximum Cont Elev 7949.91 ft				Minimum Cont Elev 7795.72 ft				Total
2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Dillon Inflow	kaf	12.0	6.4	4.9	4.2	3.9	3.6	4.3	10.8	41.9	73.0	37.0	18.6	220.6
Dillon-Grn Mtn Gain	kaf	11.0	6.8	4.9	4.1	3.6	3.3	4.2	10.4	29.1	47.9	26.2	15.0	166.5
Undepleted Inflow	kaf	23.0	13.2	9.8	8.3	7.5	6.9	8.5	21.2	71.0	120.9	63.2	33.6	387.1
Depletion	kaf	0.9	2.6	0.0	-0.1	0.4	-0.3	0.0	7.9	38.8	50.0	25.0	15.5	140.7
Depleted Inflow	kaf	22.1	10.6	9.8	8.4	7.1	7.2	8.5	13.3	32.2	70.9	38.2	18.1	246.4
Turbine Release	kaf	53.6	36.9	13.8	12.5	12.0	10.8	14.3	9.9	10.6	20.1	25.4	41.0	260.9
Spill/Waste	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total River Release	kaf	53.6	36.9	13.8	12.5	12.0	10.8	14.3	9.9	10.6	20.1	25.4	41.0	260.9
Min Release	cfs	900	600	232	203	195	195	232	167	67	73	73	667	
Total River Release	cfs	901	600	232	203	195	194	233	166	172	338	413	667	
Evaporation	kaf	0.6	0.4	0.1	0.0	0.0	0.0	0.2	0.3	0.5	0.8	0.8	0.6	4.3
End-Month Targets	kaf								75.0	90.0	140.0	152.0		
End-Month Content	kaf	115.2	88.5	84.4	80.3	75.4	71.8	65.8	68.9	90.0	140.0	152.0	128.5	
End-Month Elevation	ft	7930.10	7913.27	7910.36	7907.34	7903.58	7900.71	7895.68	7898.32	7914.31	7943.31	7949.15	7937.39	
Willow Crk Reservoir		Initial Cont Elev 8124.50 ft				Maximum Cont Elev 8128.83 ft				Minimum Cont Elev 8116.90 ft				Total
2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	
Native Inflow	kaf	1.1	1.3	1.0	0.8	0.8	0.7	1.0	3.6	23.7	16.9	4.1	1.6	56.6
Min Release	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	10.0
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total River Release	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	10.0
Pumped to Granby	kaf	0.6	1.6	1.6	0.0	0.0	0.0	1.7	3.2	20.3	13.2	2.8	0.8	45.8
Evaporation	kaf	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.6
End-Month Targets	kaf	9.0		7.2					7.2	9.0	10.0	9.0		
End-Month Content	kaf	9.0	8.2	7.2	7.6	8.0	8.3	7.2	7.2	9.0	10.0	9.0	9.2	
End-Month Elevation	ft	8124.50	8121.32	8116.90	8118.74	8120.48	8121.73	8116.90	8116.90	8124.50	8128.14	8124.50	8125.26	

Lake Granby		Initial Cont Elev 8264.71 ft				Maximum Cont Elev 8279.50 ft				Minimum Cont Elev 8186.91 ft				76.5 kaf		
2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total		
Native inflow	kaf	2.5	2.4	1.6	1.5	1.4	1.2	1.4	4.5	20.4	35.8	15.2	4.6	92.5		
Rels frm Shadow Mtn	kaf	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	3.6	40.8	7.5	2.5	78.7		
Pump frm Windy Gap	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	10.0	0.0	0.0	25.0		
Pump frm Willow Crk	kaf	0.6	1.6	1.6	0.0	0.0	0.0	1.7	3.2	20.3	13.2	2.8	0.8	45.8		
Total Inflow	kaf	5.2	16.0	5.9	4.3	2.6	2.3	4.3	8.9	59.3	99.8	25.5	7.9	242.0		
Min River Release	kaf	1.0	1.2	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	24.4		
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total River Release	kaf	1.0	1.2	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	24.4		
Pumped to Shadow Mtn	kaf	31.6	32.4	1.0	14.3	31.1	28.9	26.5	18.1	0.0	0.0	0.0	7.1	191.0		
Evaporation	kaf	1.9	1.4	0.6	0.2	0.0	0.0	0.8	1.2	2.0	2.7	2.7	2.1	15.6		
Seepage loss	kaf	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	4.0		
End-Month Content	kaf	404.2	384.9	387.7	376.0	346.0	318.0	293.5	281.6	334.0	426.0	445.1	440.9			
End-Month Elevation	ft	8260.08	8256.98	8257.43	8255.52	8250.49	8245.61	8241.17	8238.94	8248.42	8263.49	8266.41	8265.77			
Shadow Mtn		Initial Cont Elev 8366.73 ft				Maximum Cont Elev 8367.00 ft				Minimum Cont Elev 8366.02 ft				16.6 kaf		
2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total		
Native inflow	kaf	3.7	3.5	2.5	2.2	2.1	1.8	2.2	6.8	30.6	53.8	22.7	6.9	138.8		
Pumped from Granby	kaf	31.6	32.4	1.0	14.3	31.1	28.9	26.5	18.1	0.0	0.0	0.0	7.1	191.0		
Total Inflow	kaf	35.3	35.9	3.5	16.5	33.2	30.7	28.7	24.9	30.6	53.8	22.7	14.0	329.8		
Min River Release	kaf	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	1.2	3.0	3.1	2.5	34.1		
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	37.8	4.4	0.0	44.6		
Total River Release	kaf	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	3.6	40.8	7.5	2.5	78.7		
Adams Tunnel Flow	kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	246.4		
Evaporation	kaf	0.5	0.4	0.2	0.1	0.0	0.0	0.3	0.4	0.7	0.8	0.7	0.6	4.7		
End-Month Content	kaf	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9			
End-Month Elevation	ft	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73	8366.73			
Adams Tunnel		2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Max Tunnel Capacity	kaf	32.7	33.8	32.7	33.8	33.8	30.5	33.8	32.7	33.8	32.7	33.8	16.9	381.0		
Actual delivery	kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	246.4		
% max delivery	%	100	70	2	40	95	97	80	71	78	37	43	64			
Big T @ Lake Estes		2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Big Thompson inflow	kaf	4.2	2.7	1.6	1.1	0.8	0.7	1.0	2.8	18.1	33.1	14.5	7.1	87.7		
Min river release	kaf	3.7	3.1	1.5	1.5	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	45.3		
Act river release	kaf	4.2	2.7	1.5	1.1	0.8	0.7	1.0	2.2	10.6	12.6	7.7	6.9	52.0		

Skim water available	kaf	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.6	11.2	25.7	6.8	0.2	45.1	
Skim water diverted	kaf	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	7.5	20.5	6.8	0.2	35.7	
% skim diverted	%			100					100	67	80	100	100		
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Irrigation delivery	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Total river release	kaf	4.2	2.7	1.5	1.1	0.8	0.7	1.0	2.2	10.6	12.6	7.7	6.9	52.0	
Olympus Tunnel	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total	
Max Tunnel Capacity	kaf	32.7	23.7	3.3	25.4	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	350.0	
Actual delivery	kaf	32.7	23.5	0.7	13.6	32.0	29.6	27.2	23.9	33.8	32.7	21.3	11.1	282.1	
% max delivery	%	100	99	21	54	95	97	80	73	100	100	63	33		
Seepage and Evap	kaf	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	1.7	
Inflow to Flatiron	kaf	32.5	23.3	0.5	13.4	31.9	29.5	27.1	23.8	33.7	32.6	21.2	10.9	280.4	
Carter Lake			Initial Cont		60.2 kaf		Maximum Cont		112.2 kaf		Minimum Cont		11.2 kaf		
			Elev		5708.90 ft		Elev		5758.98 ft		Elev		5639.99 ft		
	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total	
Pump from Flatiron	kaf	7.8	19.0	0.0	6.6	13.3	17.3	14.3	6.1	12.7	5.3	0.0	0.0	102.4	
Release to Flatiron	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Evaporation loss	kaf	0.3	0.2	0.1	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.4	0.3	2.7	
Seepage loss	kaf	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	1.7	
End-Month Targets	kaf	49.6	58.9	57.2	65.4	74.0	90.0	102.0	102.0	107.0	102.0	86.0	50.5		
End-Month Content	kaf	49.6	58.9	57.2	62.3	74.0	89.8	102.0	102.0	107.0	102.0	86.8	62.4		
End-Month Elevation	ft	5697.00	5707.49	5705.62	5711.16	5723.28	5738.65	5749.91	5749.91	5754.39	5749.91	5735.80	5711.27		
Irrigation demand	kaf	13.0	6.2	0.0	0.0	0.0	0.0	0.0	3.4	2.7	4.3	8.0	18.0	55.6	
Metered delivery	kaf	3.3	2.6	1.1	1.0	1.1	1.0	1.3	1.7	2.4	2.9	4.3	4.0	26.7	
Windy Gap demand	kaf	1.7	0.6	0.4	0.4	0.4	0.4	0.4	0.5	2.0	2.4	2.3	2.0	13.5	
Total demand	kaf	18.0	9.4	1.5	1.4	1.5	1.4	1.7	5.6	7.1	9.6	14.6	24.0	95.8	
Total delivery	kaf	18.0	9.4	1.5	1.4	1.5	1.4	1.7	5.6	7.1	9.6	14.6	24.0	95.8	
% required delivery	%	100	100	100	100	100	100	100	100	100	100	100	100		
Shortage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Hansen Canal	930	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Minimum flow	kaf	1.5	1.5	1.5	15.4	15.4	13.9	6.1	1.5	1.5	1.5	1.5	1.5	62.8	
Maximum flow	kaf	55.3	57.2	55.3	57.2	57.2	51.6	57.2	27.7	57.2	55.3	57.2	57.2	645.6	
Actual flow	kaf	24.7	4.3	0.5	6.8	18.6	12.2	12.8	17.7	21.0	27.3	21.2	10.9	178.0	
Dille Tunnel	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total	
Big T @ Canyon Mouth	kaf	5.6	3.8	2.4	1.6	1.3	1.2	1.7	6.0	21.7	36.2	23.3	11.5	116.3	
Less Estes Skim	kaf	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	7.5	20.5	6.8	0.2	35.7	

Big T irr (Estes)	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Handy Ditch release	kaf	1.7	1.2	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.8	2.9	11.2				
Water available	kaf	3.9	2.6	2.3	1.6	1.3	1.2	1.7	4.2	13.0	14.5	14.7	8.4	69.4				
Water diverted	kaf	3.9	0.0	0.0	0.0	0.0	0.0	0.0	4.2	13.0	0.0	14.1	8.4	43.6				
% diverted	%	100							100	100		96	100					
Trifurcation Works	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total				
Rels from Flatiron	kaf	24.7	4.3	0.5	6.8	18.6	12.2	12.8	17.7	21.0	27.3	21.2	10.9	178.0				
Rels to 550 Canal	kaf	17.2	2.4	0.4	6.8	18.6	12.2	12.8	16.4	11.3	4.9	10.6	5.4	119.0				
Big T irrigation	kaf	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.8	5.3	23.3				
Dille Tunnel	kaf	3.9	0.0	0.0	0.0	0.0	0.0	0.0	4.2	13.0	0.0	14.1	8.4	43.6				
Tot rels to river	kaf	11.4	1.9	0.1	0.0	0.0	0.0	0.0	5.5	22.7	22.4	24.7	13.9	102.6				
Irrigation demand	kaf	7.2	1.9	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.4	4.9	22.2				
Big T irr (Estes)	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Windy Gap demand	kaf	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.1				
Total requirement	kaf	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.8	5.3	23.3				
Total delivery	kaf	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.8	5.3	23.3				
% required delivery	%	100	100	0	0	0	0	0	100	100	100	100	100					
Shortage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Hansen Canal 550	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total				
Inflow from Flatiron	kaf	17.2	2.4	0.4	6.8	18.6	12.2	12.8	16.4	11.3	4.9	10.6	5.4	119.0				
Maximum flow	kaf	30.9	16.0	30.9	32.0	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	346.0				
Seepage loss	kaf	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.4				
Irrigation demand	kaf	1.1	0.7	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.4	1.2	1.2	6.6				
Irrigation delivery	kaf	1.1	0.7	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.4	1.2	1.2	6.6				
Minimum flow	kaf	1.5	1.5	0.0	3.1	3.1	2.8	1.5	1.5	1.5	1.5	1.5	1.5	21.0				
Rels to Horsetooth	kaf	15.9	1.5	0.0	6.4	18.1	11.8	12.3	15.9	10.6	4.3	9.2	4.0	110.0				
Horsetooth Reservoir		Initial Cont			93.6 kaf			Maximum Cont			156.7 kaf			Minimum Cont			5.0 kaf	
		Elev			5394.78 ft			Elev			5429.98 ft			Elev			5297.06 ft	
	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total				
Inflow	kaf	15.9	1.5	0.0	6.4	18.1	11.8	12.3	15.9	10.6	4.3	9.2	4.0	110.0				
Total irr delivery	kaf	28.8	10.4	1.6	1.6	1.7	1.7	2.0	2.6	7.4	8.3	19.2	27.5	112.8				
Evaporation loss	kaf	0.4	0.3	0.1	0.0	0.0	0.0	0.2	0.4	0.7	0.8	0.7	0.5	4.1				
Seepage loss	kaf	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	1.7				
End-Month Targets	kaf	80.2	66.5	64.6	73.8	90.0	100.0	110.0	125.0	125.0	120.0	109.1	85.0					
End-Month Content	kaf	80.2	70.9	69.1	73.8	90.0	100.0	110.0	122.7	125.0	120.0	109.1	85.0					
End-Month Elevation	ft	5385.85	5379.20	5377.87	5381.32	5392.45	5398.82	5404.88	5412.19	5413.47	5410.67	5404.35	5389.13					
Irrigation demand	kaf	23.0	8.1	0.0	0.0	0.0	0.0	0.0	0.1	3.5	4.1	10.9	20.0	69.7				
Metered delivery	kaf	4.4	1.9	1.2	1.2	1.3	1.3	1.6	2.1	3.5	3.8	6.8	6.0	35.1				

Windy Gap demand	kaf	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.5	8.0
Total demand	kaf	28.8	10.4	1.6	1.6	1.7	1.7	2.0	2.6	7.4	8.3	19.2	27.5	112.8
Total irr delivery	kaf	28.8	10.4	1.6	1.6	1.7	1.7	2.0	2.6	7.4	8.3	19.2	27.5	112.8
% required delivery	%	100	100	100	100	100	100	100	100	100	100	100	100	
Shortage	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total CBT Delivery	kaf	52.0	21.4	2.5	2.4	2.7	2.5	3.2	8.3	14.8	17.4	34.6	54.1	215.9
Windy Gap Ownership 2008		Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	9.0	0.0	0.0	22.5
Total release	kaf	3.4	1.0	0.8	0.8	0.8	0.8	0.8	0.9	2.4	2.8	4.2	3.9	22.6
Spill	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
End-month Ownership	kaf	56.1	55.1	54.3	53.5	52.7	51.9	51.1	50.2	61.3	67.5	63.3	59.4	

PUMPING AND GENERATION OPERATIONS

Green Mtn Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Max Generation	gwh	14.940	15.438	14.940	15.438	15.438	13.944	15.438	14.940	15.438	14.940	15.438	15.438	181.770
Generation	gwh	10.856	6.904	2.448	2.181	2.054	1.816	2.354	1.619	1.827	3.909	5.303	8.460	49.731
% Max Generation	%	73	45	16	14	13	13	15	11	12	26	34	55	
Ave kwh/af		203	187	177	174	171	168	165	164	172	194	209	206	
Willow Crk Pumping	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Maximum pumping	kaf	26.8	27.7	26.8	0.0	0.0	0.0	27.7	26.8	27.7	26.8	27.7	27.7	245.7
Actual pumping	kaf	0.6	1.6	1.6	0.0	0.0	0.0	1.7	3.2	20.3	13.2	2.8	0.8	45.8
Pump energy	gwh	0.128	0.341	0.341	0.000	0.000	0.000	0.362	0.682	4.324	2.812	0.596	0.170	9.756
% max pumping	%	2	6	6				6	12	73	49	10	3	
Average kwh/af		213	213	213				213	213	213	213	213	213	
Lake Granby Pumping	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Maximum pumping	kaf	35.7	36.9	35.7	36.9	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	434.4
Actual pumping	kaf	31.6	32.4	1.0	14.3	31.1	28.9	26.5	18.1	0.0	0.0	0.0	7.1	191.0
Pump energy	gwh	4.614	4.795	0.148	2.131	4.665	4.422	4.134	2.860	0.000	0.000	0.000	1.029	28.798
% max pumping	%	89	88	3	39	84	87	72	51				19	
Average kwh/af		146	148	148	149	150	153	156	158				145	
Marys Lake Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Adams Tunnel Flow	kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	
Max generation	gwh	5.840	0.000	2.320	6.060	6.060	5.400	6.060	5.840	6.060	5.840	6.060	6.060	61.600
Generation	gwh	5.840	0.000	0.000	2.420	5.700	5.260	4.840	4.160	4.660	2.140	2.550	1.880	39.450
% Max Generation	%	100			40	94	97	80	71	77	37	42	31	
Ave kwh/af		179			178	178	178	178	179	177	175	176	172	

Lake Estes Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Adams Tunnel Flow	kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	
Max generation	gwh	14.450	14.920	14.450	14.920	13.400	9.460	10.450	10.060	10.450	14.450	14.920	14.920	156.850
Generation	gwh	14.450	10.350	0.000	6.300	13.400	9.460	10.450	10.060	10.450	5.680	6.750	4.850	102.200
% Max Generation	%	100	69		42	100	100	100	100	100	39	45	33	
Ave kwh/af		442	440		463	441	442	441	439	441	466	466	445	
Pole Hill Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Olympus Tunnel flow	kaf	32.7	23.5	0.7	13.6	32.0	29.6	27.2	23.9	33.8	32.7	21.3	11.1	282.1
Max generation	gwh	24.460	6.950	2.210	18.980	25.260	22.800	25.260	24.460	25.260	24.460	25.260	25.260	250.620
Generation	gwh	13.720	14.150	0.000	10.120	14.150	12.730	14.150	13.720	14.150	13.720	14.150	8.150	142.910
% Max Generation	%	56	204		53	56	56	56	56	56	56	56	32	
Ave kwh/af		420	1401		744	442	430	520	574	419	420	664	734	
Flatiron 1&2 Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Inflow to Flatiron	kaf	32.5	23.3	0.5	13.4	31.9	29.5	27.1	23.8	33.7	32.6	21.2	10.9	280.4
Max generation	gwh	16.010	16.550	16.010	16.550	16.550	14.900	16.550	16.010	16.550	16.010	16.550	16.550	194.790
Generation	gwh	16.010	16.550	0.000	11.960	16.550	14.900	16.550	16.010	16.550	16.010	16.550	9.650	167.290
% Max Generation	%	100	100		72	100	100	100	100	100	100	100	58	
Ave kwh/af		894	895		893	895	892	895	894	895	894	895	885	
Flatiron 3 Pump/Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Maximum pumping	kaf	22.1	19.5	0.0	6.6	21.0	17.3	17.5	16.2	16.4	15.9	17.7	20.2	190.4
Pump from Flatiron	kaf	7.8	19.0	0.0	6.6	13.3	17.3	14.3	6.1	12.7	5.3	0.0	0.0	102.4
Pump energy	gwh	2.200	5.339	0.000	1.907	4.043	5.709	5.162	2.288	4.839	2.019	0.000	0.000	33.506
% max pumping	%	35	97		100	63	100	82	38	77	33			
Average kwh/af		282	281		289	304	330	361	375	381	381			
Release to Flatiron	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maximum generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Actual generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
% max generation	%													
Average kwh/af														
Big Thompson Gen	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Total release	kaf	11.4	1.9	0.1	0.0	0.0	0.0	0.0	5.5	22.7	22.4	24.7	13.9	102.6
Turbine release	kaf	11.4	0.0	0.0	0.0	0.0	0.0	0.0	5.5	22.7	4.8	24.7	13.9	83.0
Wasteway release	kaf	0.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0	0.0	19.6
Max generation	gwh	3.800	0.000	0.000	0.000	0.000	0.000	0.000	3.800	3.940	0.500	3.940	3.940	19.920
Generation	gwh	1.580	0.000	0.000	0.000	0.000	0.000	0.000	0.600	3.640	0.500	3.940	2.000	12.260
% Max Generation	%	42							16	92	100	100	51	
Ave kwh/af		139							109	160	104	160	144	

PROJECT GENERATION AND PUMPING SUMMARY

Project Generation	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Base Generation:														
Big Thompson	gwh	1.580	0.000	0.000	0.000	0.000	0.000	0.000	0.600	3.640	0.500	3.940	2.000	12.260
Green Mtn	gwh	10.856	6.904	2.448	2.181	2.054	1.816	2.354	1.619	1.827	3.909	5.303	8.460	49.731
Flatiron 3	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	gwh	12.436	6.904	2.448	2.181	2.054	1.816	2.354	2.219	5.467	4.409	9.243	10.460	61.991
Load Following Generation:														
Marys Lake	gwh	5.840	0.000	0.000	2.420	5.700	5.260	4.840	4.160	4.660	2.140	2.550	1.880	39.450
Lake Estes	gwh	14.450	10.350	0.000	6.300	13.400	9.460	10.450	10.060	10.450	5.680	6.750	4.850	102.200
Pole Hill	gwh	13.720	14.150	0.000	10.120	14.150	12.730	14.150	13.720	14.150	13.720	14.150	8.150	142.910
Flatiron 1,2	gwh	16.010	16.550	0.000	11.960	16.550	14.900	16.550	16.010	16.550	16.010	16.550	9.650	167.290
Total	gwh	50.020	41.050	0.000	30.800	49.800	42.350	45.990	43.950	45.810	37.550	40.000	24.530	451.850
Total generation	gwh	62.456	47.954	2.448	32.981	51.854	44.166	48.344	46.169	51.277	41.959	49.243	34.990	513.841
Total max generation	gwh	79.500	53.858	49.930	71.948	76.708	66.504	73.758	75.110	77.698	76.200	82.168	82.168	865.550
Project Pump Energy 2008														
Granby	gwh	4.614	4.795	0.148	2.131	4.665	4.422	4.134	2.860	0.000	0.000	0.000	1.029	28.798
Willow Creek	gwh	0.128	0.341	0.341	0.000	0.000	0.000	0.362	0.682	4.324	2.812	0.596	0.170	9.756
Flatiron 3	gwh	2.200	5.339	0.000	1.907	4.043	5.709	5.162	2.288	4.839	2.019	0.000	0.000	33.506
Total pump energy	gwh	6.942	10.475	0.489	4.038	8.708	10.131	9.658	5.830	9.163	4.831	0.596	1.199	72.060
Total net generation	gwh	55.514	37.479	1.959	28.943	43.146	34.035	38.686	40.339	42.114	37.128	48.647	33.791	441.781
Release Flexibility 2008														
Adams Tunnel	Min kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	
Adams Tunnel	Max kaf	32.7	23.5	0.6	13.6	32.0	29.6	27.2	23.3	26.3	12.2	14.5	10.9	
Marys Lake	Min gwh	5.840	0.000	0.000	2.420	5.700	5.260	4.840	4.160	4.660	2.140	2.550	1.880	
Marys Lake	Max gwh	5.840	0.000	0.000	2.420	5.700	5.260	4.840	4.160	4.660	2.140	2.550	1.880	
Lake Estes	Min gwh	14.450	10.350	0.000	6.300	13.400	9.460	10.450	10.060	10.450	5.680	6.750	4.850	
Lake Estes	Max gwh	14.450	10.350	0.000	6.300	13.400	9.460	10.450	10.060	10.450	5.680	6.750	4.850	
Olympus Tunnel	Min kaf	32.7	23.5	0.7	13.6	32.0	29.6	27.2	23.9	33.8	32.7	21.3	11.1	
Olympus Tunnel	Max kaf	32.7	23.5	0.7	13.6	32.0	29.6	27.2	23.9	33.8	32.7	21.3	11.1	
Pole Hill	Min gwh	24.460	6.950	0.000	10.280	23.900	22.120	20.340	17.920	25.260	24.460	15.940	8.380	
Pole Hill	Max gwh	24.460	6.950	0.000	10.280	23.900	22.120	20.340	17.920	25.260	24.460	15.940	8.380	

Flatiron 1&2	Min gwh	16.010	16.550	0.000	11.960	16.550	14.900	16.550	16.010	16.550	16.010	16.550	9.650
Flatiron 1&2	Max gwh	16.010	16.550	0.000	11.960	16.550	14.900	16.550	16.010	16.550	16.010	16.550	9.650
Load following	Min gwh	60.760	33.850	0.000	30.960	59.550	51.740	52.180	48.150	56.920	48.290	41.790	24.760
Load following	Max gwh	60.760	33.850	0.000	30.960	59.550	51.740	52.180	48.150	56.920	48.290	41.790	24.760
Total project	Min gwh	73.196	40.754	2.448	33.141	61.604	53.556	54.534	50.369	62.387	52.699	51.033	35.220
Total project	Max gwh	73.196	40.754	2.448	33.141	61.604	53.556	54.534	50.369	62.387	52.699	51.033	35.220

GENERATION CAPACITY AND DURATION

Project Generation	2008	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Total
Base Generation:														
Green Mtn	mw	15.1	9.3	3.4	2.9	2.8	2.7	3.2	2.2	2.5	5.4	7.1	11.4	
Flatiron 3	mw													
Big Thompson	mw	2.2							0.8	4.9	0.7	5.3	2.7	
Total base load	mw	17.3	9.3	3.4	2.9	2.8	2.7	3.2	3.0	7.4	6.1	12.4	14.1	
Load Following Generation:														
Marys Lake														
Min Capacity	mw	8.1	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	12.0	6.2	12.0	10.7	1.0	1.8	3.4	6.3	4.1	11.2	10.9	11.1	
Max Capacity	mw	8.1	8.1	0.0	6.3	8.1	8.1	8.1	8.1	8.1	5.8	6.9	5.0	
Duration	hr/d	12.0	16.9	12.0	12.3	23.0	21.3	19.6	16.7	18.9	11.8	12.1	11.9	
Lake Estes														
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	11.0	12.0	12.0	12.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Max Capacity	mw	45.0	29.7	0.0	16.1	45.0	37.4	33.8	29.6	32.8	15.1	17.4	13.9	
Duration	hr/d	10.0	12.0	12.0	12.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Pole Hill														
Min Capacity	mw	34.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0	34.0	34.0	0.0	0.0	
Duration	hr/d	12.0	6.8	12.0	12.0	0.5	2.4	4.1	6.5	12.0	12.0	8.4	12.0	
Max Capacity	mw	34.0	34.0	0.0	28.8	34.0	34.0	34.0	34.0	34.0	34.0	34.0	22.3	
Duration	hr/d	12.0	17.3	12.0	12.0	23.5	21.7	19.9	17.5	12.0	12.0	15.6	12.0	
Flatiron 1&2														
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	9.6	12.0	12.0	12.0	10.0	11.8	12.0	12.0	8.7	9.5	12.0	12.0	
Max Capacity	mw	85.0	56.9	0.0	33.2	83.8	76.0	67.3	58.4	86.0	85.2	51.6	26.7	
Duration	hr/d	10.1	12.0	12.0	12.0	10.2	11.9	12.0	12.0	10.0	10.0	12.0	12.0	
Total Load Following														
Min Capacity	mw	42.1	0.0	0.0	0.0	36.7	0.0	0.0	0.0	34.0	34.0	0.0	0.0	
Max Capacity	mw	172.1	128.7	0.0	84.4	170.9	155.5	143.2	130.1	160.9	140.1	109.9	67.9	
Total Project Capacity														
Min Capacity	mw	59.4	9.3	3.4	2.9	39.5	2.7	3.2	3.0	41.4	40.1	12.4	14.1	
Max Capacity	mw	189.4	138.0	3.4	87.3	173.7	158.2	146.4	133.1	168.3	146.2	122.3	82.0	