

COLORADO-BIG THOMPSON MONTHLY OPERATIONS

HYDROLOGY OPERATIONS

Green Mtn Reservoir		Initial Cont Elev 7895.33 ft				Maximum Cont Elev 7949.91 ft				Minimum Cont Elev 7795.72 ft				Total
2008		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Dillon Inflow	kaf	38.8	88.7	47.5	18.2	9.4	6.4	4.9	4.2	3.9	3.6	4.3	10.8	240.7
Dillon-Grn Mtn Gain	kaf	27.2	57.3	32.5	14.8	9.5	6.8	4.9	4.1	3.6	3.3	4.2	10.4	178.6
Undepleted Inflow	kaf	66.0	146.0	80.0	33.0	18.9	13.2	9.8	8.3	7.5	6.9	8.5	21.2	419.3
Depletion	kaf	15.1	37.9	11.7	1.6	0.9	2.5	0.0	0.0	0.4	-0.3	0.0	7.9	77.7
Depleted Inflow	kaf	50.9	108.1	68.3	31.4	18.0	10.7	9.8	8.3	7.1	7.2	8.5	13.3	341.6
Turbine Release	kaf	25.8	57.3	55.5	46.8	44.3	31.6	13.8	12.6	13.0	11.7	12.6	9.9	334.9
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	25.8	57.3	55.5	46.8	44.3	31.6	13.8	12.6	13.0	11.7	12.6	9.9	334.9
Min Release	cfs	67	73	73	761	744	514	232	200	211	211	205	167	
Total River Release	cfs	420	963	903	761	744	514	232	205	211	211	205	166	
Evaporation	kaf	0.5	0.8	0.8	0.6	0.5	0.3	0.1	0.0	0.0	0.0	0.2	0.3	4.1
End-Month Targets	kaf	90.0	140.0	152.0							70.0	65.0	75.0	
End-Month Content	kaf	90.0	140.0	152.0	136.0	109.2	88.0	83.9	79.6	73.7	69.2	64.9	68.0	
End-Month Elevation	ft	7914.31	7943.31	7949.15	7941.29	7926.61	7912.92	7909.99	7906.81	7902.24	7898.57	7894.89	7897.56	
Willow Crk Reservoir		Initial Cont Elev 8121.32 ft				Maximum Cont Elev 8128.83 ft				Minimum Cont Elev 8116.90 ft				Total
2008		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
Native Inflow	kaf	27.0	25.6	6.7	1.6	1.1	1.3	1.0	0.8	0.8	0.7	1.0	3.6	71.2
Min Release	kaf	1.5	2.6	2.2	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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	1.5	2.6	2.2	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	10.0
Pumped to Granby	kaf	24.6	21.9	5.4	0.8	0.8	1.4	1.3	0.0	0.0	0.0	2.2	3.2	61.6
Evaporation	kaf	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6
End-Month Targets	kaf	9.0	10.0	9.0		9.0		7.7					7.2	
End-Month Content	kaf	9.0	10.0	9.0	9.2	9.0	8.4	7.7	8.1	8.5	8.8	7.2	7.2	
End-Month Elevation	ft	8124.50	8128.14	8124.50	8125.26	8124.50	8122.14	8119.18	8120.90	8122.55	8123.73	8116.90	8116.90	
Lake Granby		Initial Cont Elev 8236.14 ft				Maximum Cont Elev 8279.50 ft				Minimum Cont Elev 8186.91 ft				Total
2008		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	

Native inflow	kaf	22.8	44.0	16.2	4.2	2.5	2.4	1.6	1.5	1.4	1.2	1.4	4.5	103.7
Rels frm Shadow Mtn	kaf	7.1	39.1	3.1	2.5	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	76.1
Pump frm Windy Gap	kaf	18.4	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6
Pump frm Willow Crk	kaf	24.6	21.9	5.4	0.8	0.8	1.4	1.3	0.0	0.0	0.0	2.2	3.2	61.6
Total Inflow	kaf	72.9	119.2	24.7	7.5	5.4	15.8	5.6	4.3	2.6	2.3	4.8	8.9	274.0
Min River Release	kaf	4.6	4.7	3.3	2.5	1.0	1.2	1.2	1.2	1.2	1.1	1.2	1.2	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	4.6	4.7	3.3	2.5	1.0	1.2	1.2	1.2	1.2	1.1	1.2	1.2	24.4
Pumped to Shadow Mtn	kaf	0.0	0.0	8.6	13.5	16.4	13.9	2.5	26.1	32.9	29.1	26.9	12.0	181.9
Evaporation	kaf	2.0	2.8	2.7	2.1	1.9	1.4	0.6	0.2	0.0	0.0	0.8	1.3	15.8
Seepage loss	kaf	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.0
End-Month Content	kaf	333.0	444.3	454.0	443.0	428.7	427.7	428.7	405.2	373.4	345.2	320.8	314.9	
End-Month Elevation	ft	8248.25	8266.29	8267.74	8266.09	8263.91	8263.76	8263.91	8260.24	8255.09	8250.36	8246.11	8245.06	
Shadow Mtn			Initial Cont		17.9 kaf		Maximum Cont		18.4 kaf		Minimum Cont		16.6 kaf	
			Elev	8366.73 ft			Elev	8367.00 ft			Elev	8366.02 ft		
	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Native inflow	kaf	34.2	66.0	24.2	6.2	3.7	3.5	2.5	2.2	2.1	1.8	2.2	6.8	155.4
Pumped from Granby	kaf	0.0	0.0	8.6	13.5	16.4	13.9	2.5	26.1	32.9	29.1	26.9	12.0	181.9
Total Inflow	kaf	34.2	66.0	32.8	19.7	20.1	17.4	5.0	28.3	35.0	30.9	29.1	18.8	337.3
Min River Release	kaf	1.2	3.0	3.1	2.5	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	34.1
Spill/Bypass	kaf	5.9	36.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.0
Total River Release	kaf	7.1	39.1	3.1	2.5	2.1	12.0	2.7	2.8	1.2	1.1	1.2	1.2	76.1
Adams Tunnel Flow	kaf	26.4	26.1	29.0	16.6	17.5	5.0	2.1	25.4	33.8	29.8	27.6	17.2	256.5
Evaporation	kaf	0.7	0.8	0.7	0.6	0.5	0.4	0.2	0.1	0.0	0.0	0.3	0.4	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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Max Tunnel Capacity	kaf	33.8	32.7	33.8	33.8	32.7	33.8	32.7	33.8	33.8	30.5	33.8	32.7	397.9
Actual delivery	kaf	26.4	26.1	29.0	16.6	17.5	5.0	2.1	25.4	33.8	29.8	27.6	17.2	256.5
% max delivery	%	78	80	86	49	54	15	6	75	100	98	82	53	
Big T @ Lake Estes	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Big Thompson inflow	kaf	17.5	32.1	14.1	7.1	4.2	2.7	1.6	1.1	0.8	0.7	1.0	3.0	85.9
Min river release	kaf	6.9	7.4	7.7	6.9	3.7	3.1	1.5	1.5	1.5	1.4	1.5	2.2	45.3
Act river release	kaf	10.1	25.5	9.3	6.9	3.7	2.7	1.5	1.1	0.8	0.7	1.0	2.2	65.5
Skim water available	kaf	10.6	24.7	6.4	0.2	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.8	43.3
Skim water diverted	kaf	7.4	6.6	4.8	0.2	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.8	20.4
% skim diverted	%	70	27	75	100	100		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	10.1	25.5	9.3	6.9	3.7	2.7	1.5	1.1	0.8	0.7	1.0	2.2	65.5

Olympus Tunnel	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total					
Max Tunnel Capacity	kaf	33.8	32.7	33.8	33.8	32.7	23.7	3.3	25.4	33.8	30.5	33.8	32.7	350.0					
Actual delivery	kaf	33.8	32.7	33.8	16.8	18.0	5.0	2.2	25.4	33.8	29.8	27.6	18.0	276.9					
% max delivery	%	100	100	100	50	55	21	67	100	100	98	82	55						
Seepage and Evap	kaf	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	1.7					
Inflow to Flatiron	kaf	33.7	32.6	33.7	16.6	17.8	4.8	2.0	25.2	33.7	29.7	27.5	17.9	275.2					
Carter Lake		Initial Cont			59.5 kaf			Maximum Cont			112.2 kaf			Minimum Cont			11.2 kaf		
				Elev	5708.14	ft		Elev	5758.98	ft		Elev	5639.99	ft					
	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total					
Pump from Flatiron	kaf	21.2	19.2	15.1	0.0	0.0	0.0	0.0	15.5	21.1	17.3	14.7	0.0	124.1					
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	0.5	0.4	0.3	0.3	0.2	0.1	0.0	0.0	0.0	0.2	0.3	2.6					
Seepage loss	kaf	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	1.7					
End-Month Targets	kaf	73.1	82.0	80.6	61.0	49.0	40.0	38.0	55.0	74.0	90.0	102.0	57.3						
End-Month Content	kaf	73.1	82.0	80.6	61.2	49.0	41.8	40.1	54.1	73.6	89.4	102.0	95.9						
End-Month Elevation	ft	5722.37	5731.18	5729.82	5709.98	5696.30	5687.65	5685.52	5702.16	5722.88	5738.27	5749.91	5744.34						
Irrigation demand	kaf	2.7	4.3	9.8	13.3	7.2	4.2	0.0	0.0	0.0	0.0	0.0	3.4	44.9					
Metered delivery	kaf	2.4	2.9	3.8	3.6	2.9	2.1	1.1	1.0	1.1	1.0	1.3	1.7	24.9					
Windy Gap demand	kaf	2.0	2.4	2.3	2.1	1.7	0.6	0.4	0.4	0.4	0.4	0.4	0.5	13.6					
Total demand	kaf	7.1	9.6	15.9	19.0	11.8	6.9	1.5	1.4	1.5	1.4	1.7	5.6	83.4					
Total delivery	kaf	7.1	9.6	15.9	19.0	11.8	6.9	1.5	1.4	1.5	1.4	1.7	5.6	83.4					
% 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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total					
Minimum flow	kaf	1.5	1.5	1.5	1.5	1.5	1.5	1.5	15.4	15.4	13.9	6.1	1.5	62.8					
Maximum flow	kaf	57.2	55.3	57.2	57.2	55.3	57.2	55.3	57.2	57.2	51.6	57.2	27.7	645.6					
Actual flow	kaf	12.5	13.4	18.6	16.6	17.8	4.8	2.0	9.7	12.6	12.4	12.8	17.9	151.1					
Dille Tunnel	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total					
Big T @ Canyon Mouth	kaf	21.2	35.4	22.8	11.5	5.6	3.8	2.4	1.6	1.3	1.2	1.7	6.7	115.2					
Less Estes Skim	kaf	7.4	6.6	4.8	0.2	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.8	20.4					
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	1.2	1.2	1.8	2.9	1.7	1.2	0.0	0.0	0.0	0.0	0.0	1.2	11.2					
Water available	kaf	12.6	27.6	16.2	8.4	3.4	2.6	2.3	1.6	1.3	1.2	1.7	4.7	83.6					
Water diverted	kaf	12.6	15.4	16.2	8.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	4.7	60.7					
% diverted	%	100	56	100	100	100							100						
Trifurcation Works	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total					
Rels from Flatiron	kaf	12.5	13.4	18.6	16.6	17.8	4.8	2.0	9.7	12.6	12.4	12.8	17.9	151.1					
Rels to 550 Canal	kaf	2.9	4.9	10.8	10.9	11.4	2.4	1.9	9.7	12.6	12.4	12.8	16.4	109.1					
Big T irrigation	kaf	2.2	1.9	3.0	5.5	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.7	21.6					

Dille Tunnel	kaf	12.6	15.4	16.2	8.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	4.7	60.7
Tot rels to river	kaf	22.2	23.9	24.0	14.1	9.8	2.4	0.1	0.0	0.0	0.0	0.0	6.2	102.7
Irrigation demand	kaf	2.2	1.9	2.6	5.1	5.6	2.4	0.0	0.0	0.0	0.0	0.0	0.7	20.5
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	0.0	0.0	0.4	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
Total requirement	kaf	2.2	1.9	3.0	5.5	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.7	21.6
Total delivery	kaf	2.2	1.9	3.0	5.5	5.9	2.4	0.0	0.0	0.0	0.0	0.0	0.7	21.6
% required delivery	%	100	100	100	100	100	100	0	0	0	0	0	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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Inflow from Flatiron	kaf	2.9	4.9	10.8	10.9	11.4	2.4	1.9	9.7	12.6	12.4	12.8	16.4	109.1
Maximum flow	kaf	32.0	30.9	32.0	32.0	30.9	16.0	30.9	32.0	32.0	28.9	32.0	16.4	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	0.5	0.4	1.0	1.0	0.9	0.7	0.2	0.2	0.3	0.2	0.3	0.3	6.0
Irrigation delivery	kaf	0.5	0.4	1.0	1.0	0.9	0.7	0.2	0.2	0.3	0.2	0.3	0.3	6.0
Minimum flow	kaf	1.5	1.5	1.5	1.5	1.5	1.5	0.0	3.1	3.1	2.8	1.5	1.5	21.0
Rels to Horsetooth	kaf	2.2	4.3	9.6	9.7	10.3	1.5	1.5	9.3	12.1	12.0	12.3	15.9	100.7

Horsetooth Reservoir	2008	Initial Cont				Maximum Cont				Minimum Cont				Total
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
		125.8 kaf				156.7 kaf				5.0 kaf				
		Elev 5413.91 ft				Elev 5429.98 ft				Elev 5297.06 ft				
Inflow	kaf	2.2	4.3	9.6	9.7	10.3	1.5	1.5	9.3	12.1	12.0	12.3	15.9	100.7
Total irr delivery	kaf	7.4	8.3	21.3	26.3	15.8	7.8	1.6	1.6	1.7	1.7	2.0	2.6	98.1
Evaporation loss	kaf	0.6	0.8	0.7	0.5	0.4	0.3	0.1	0.0	0.0	0.0	0.2	0.4	4.0
Seepage loss	kaf	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	1.7
End-Month Targets	kaf	119.8	114.8	102.2	85.0	79.0	72.0	72.0	80.0	90.0	100.0	110.0	125.2	
End-Month Content	kaf	119.8	114.8	102.2	85.0	79.0	72.3	72.0	79.6	89.8	100.0	110.0	122.7	
End-Month Elevation	ft	5410.55	5407.69	5400.18	5389.13	5385.01	5380.23	5380.01	5385.43	5392.32	5398.82	5404.88	5412.19	

Irrigation demand	kaf	3.5	4.1	13.8	19.5	10.4	5.6	0.0	0.0	0.0	0.0	0.0	0.1	57.0
Metered delivery	kaf	3.5	3.8	6.0	5.3	4.0	1.8	1.2	1.2	1.3	1.3	1.6	2.1	33.1
Windy Gap demand	kaf	0.4	0.4	1.5	1.5	1.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	8.0
Total demand	kaf	7.4	8.3	21.3	26.3	15.8	7.8	1.6	1.6	1.7	1.7	2.0	2.6	98.1
Total irr delivery	kaf	7.4	8.3	21.3	26.3	15.8	7.8	1.6	1.6	1.7	1.7	2.0	2.6	98.1
% 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	14.8	17.4	37.0	47.8	31.0	16.8	2.5	2.4	2.7	2.5	3.2	8.3	186.4
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Windy Gap Ownership	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Accrual	kaf	16.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4
Total release	kaf	2.4	2.8	4.2	4.0	3.4	1.0	0.8	0.8	0.8	0.8	0.8	0.9	22.7
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	62.6	72.6	68.4	64.4	61.0	60.0	59.2	58.4	57.6	56.8	56.0	55.1	

PUMPING AND GENERATION OPERATIONS

Green Mtn Gen	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Max Generation	gwh	15.438	14.940	15.438	15.438	14.940	15.438	14.940	15.438	15.438	13.944	15.438	14.883	181.713
Generation	gwh	4.414	11.145	11.587	9.731	8.785	5.851	2.443	2.193	2.214	1.949	2.058	1.613	63.983
% Max Generation	%	29	75	75	63	59	38	16	14	14	14	13	11	
Ave kwh/af		171	195	209	208	198	185	177	174	170	167	163	163	
Willow Crk Pumping	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Maximum pumping	kaf	27.7	26.8	27.7	27.7	26.8	27.7	26.8	0.0	0.0	0.0	27.7	26.8	245.7
Actual pumping	kaf	24.6	21.9	5.4	0.8	0.8	1.4	1.3	0.0	0.0	0.0	2.2	3.2	61.6
Pump energy	gwh	5.240	4.665	1.150	0.170	0.170	0.298	0.277	0.000	0.000	0.000	0.469	0.682	13.121
% max pumping	%	89	82	19	3	3	5	5				8	12	
Average kwh/af		213	213	213	213	213	213	213				213	213	
Lake Granby Pumping	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Maximum pumping	kaf	36.9	35.7	36.9	36.9	35.7	36.9	35.7	36.9	36.9	33.3	36.9	35.7	434.4
Actual pumping	kaf	0.0	0.0	8.6	13.5	16.4	13.9	2.5	26.1	32.9	29.1	26.9	12.0	181.9
Pump energy	gwh	0.000	0.000	1.238	1.944	2.378	2.016	0.363	3.811	4.869	4.365	4.116	1.848	26.948
% max pumping	%			23	37	46	38	7	71	89	87	73	34	
Average kwh/af				144	144	145	145	145	146	148	150	153	154	
Marys Lake Gen	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Adams Tunnel Flow	kaf	26.4	26.1	29.0	16.6	17.5	5.0	2.1	25.4	33.8	29.8	27.6	17.2	
Max generation	gwh	6.060	5.840	6.060	6.060	5.840	0.000	2.320	6.060	6.060	5.400	6.060	5.840	61.600
Generation	gwh	4.680	4.620	5.200	2.920	3.100	0.000	0.320	4.540	6.060	5.280	4.920	3.040	44.680
% Max Generation	%	77	79	86	48	53		14	75	100	98	81	52	
Ave kwh/af		177	177	179	176	177		152	179	179	177	178	177	
Lake Estes Gen	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Adams Tunnel Flow	kaf	26.4	26.1	29.0	16.6	17.5	5.0	2.1	25.4	33.8	29.8	27.6	17.2	
Max generation	gwh	10.450	14.450	14.920	14.920	14.450	14.920	14.450	14.920	13.400	9.460	10.450	10.060	156.850
Generation	gwh	10.450	11.540	12.800	7.640	8.000	2.100	0.850	11.200	13.400	9.460	10.450	7.880	105.770
% Max Generation	%	100	80	86	51	55	14	6	75	100	100	100	78	
Ave kwh/af		441	442	441	460	457	420	405	441	441	442	441	458	
Pole Hill Gen	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Olympus Tunnel flow	kaf	33.8	32.7	33.8	16.8	18.0	5.0	2.2	25.4	33.8	29.8	27.6	18.0	276.9
Max generation	gwh	25.260	24.460	25.260	25.260	24.460	17.760	2.210	18.980	25.260	22.800	25.260	24.460	261.430
Generation	gwh	14.150	13.720	14.150	12.640	13.640	3.180	1.300	14.150	14.150	12.730	14.150	13.720	141.680
% Max Generation	%	56	56	56	50	56	18	59	75	56	56	56	56	
Ave kwh/af		419	420	419	752	758	636	591	557	419	427	513	762	
Flatiron 1&2 Gen	2008	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Total
Inflow to Flatiron	kaf	33.7	32.6	33.7	16.6	17.8	4.8	2.0	25.2	33.7	29.7	27.5	17.9	275.2

Max generation	gwh	16.550	16.010	16.550	16.550	16.010	16.550	16.010	16.550	16.550	14.900	16.550	16.010	194.790
Generation	gwh	16.550	16.010	16.550	14.800	15.920	3.740	1.600	16.550	16.550	14.900	16.550	16.010	165.730
% Max Generation	%	100	100	100	89	99	23	10	100	100	100	100	100	
Ave kwh/af		895	894	895	892	894	779	800	895	895	892	895	894	

Flatiron 3 Pump/Gen 2008 May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Total

Maximum pumping	kaf	21.3	19.2	19.3	10.3	5.9	0.0	24.0	24.0	21.6	17.4	17.5	16.5	197.0
Pump from Flatiron	kaf	21.2	19.2	15.1	0.0	0.0	0.0	0.0	15.5	21.1	17.3	14.7	0.0	124.1
Pump energy	gwh	6.360	6.163	4.968	0.000	0.000	0.000	0.000	4.216	6.246	5.692	5.292	0.000	38.937
% max pumping	%	100	100	78					65	98	99	84		
Average kwh/af		300	321	329					272	296	329	360		

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 May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Total

Total release	kaf	22.2	23.9	24.0	14.1	9.8	2.4	0.1	0.0	0.0	0.0	0.0	6.2	102.7
Turbine release	kaf	22.2	23.9	24.0	14.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0	6.2	100.2
Wasteway release	kaf	0.0	0.0	0.0	0.0	0.0	2.4	0.1	0.0	0.0	0.0	0.0	0.0	2.5
Max generation	gwh	3.940	3.800	3.940	3.940	3.800	0.000	0.000	0.000	0.000	0.000	0.000	3.800	23.220
Generation	gwh	3.540	3.800	3.800	2.020	1.260	0.000	0.000	0.000	0.000	0.000	0.000	0.640	15.060
% Max Generation	%	90	100	96	51	33							17	
Ave kwh/af		159	159	158	143	129							103	

PROJECT GENERATION AND PUMPING SUMMARY

Project Generation 2008 May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Total

Base Generation:														
Big Thompson	gwh	3.540	3.800	3.800	2.020	1.260	0.000	0.000	0.000	0.000	0.000	0.000	0.640	15.060
Green Mtn	gwh	4.414	11.145	11.587	9.731	8.785	5.851	2.443	2.193	2.214	1.949	2.058	1.613	63.983
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	7.954	14.945	15.387	11.751	10.045	5.851	2.443	2.193	2.214	1.949	2.058	2.253	79.043

Load Following Generation:

Marys Lake	gwh	4.680	4.620	5.200	2.920	3.100	0.000	0.320	4.540	6.060	5.280	4.920	3.040	44.680
Lake Estes	gwh	10.450	11.540	12.800	7.640	8.000	2.100	0.850	11.200	13.400	9.460	10.450	7.880	105.770
Pole Hill	gwh	14.150	13.720	14.150	12.640	13.640	3.180	1.300	14.150	14.150	12.730	14.150	13.720	141.680
Flatiron 1,2	gwh	16.550	16.010	16.550	14.800	15.920	3.740	1.600	16.550	16.550	14.900	16.550	16.010	165.730
Total	gwh	45.830	45.890	48.700	38.000	40.660	9.020	4.070	46.440	50.160	42.370	46.070	40.650	457.860

Total generation	gwh	53.784	60.835	64.087	49.751	50.705	14.871	6.513	48.633	52.374	44.319	48.128	42.903	536.903
Total max generation	gwh	77.698	79.500	82.168	82.168	79.500	64.668	49.930	71.948	76.708	66.504	73.758	75.053	879.603

Project Pump Energy 2008 May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr Total

Duration	hr/d	12.0	12.0	12.0	12.0	12.0	14.0	19.7	12.0	11.0	12.0	12.0	12.0
Max Capacity	mw	32.9	32.5	36.3	20.3	21.5	7.0	7.0	31.5	45.0	37.7	34.3	21.1
Duration	hr/d	12.0	12.0	12.0	12.0	12.0	10.0	4.3	12.0	10.0	12.0	12.0	12.0
Pole Hill													
Min Capacity	mw	34.0	34.0	34.0	0.0	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0
Duration	hr/d	12.0	12.0	12.0	11.6	10.8	14.0	19.4	5.4	12.0	2.3	3.8	10.8
Max Capacity	mw	34.0	34.0	34.0	33.8	34.0	11.0	11.0	34.0	34.0	34.0	34.0	34.0
Duration	hr/d	12.0	12.0	12.0	12.4	13.2	10.0	4.6	18.6	12.0	21.9	20.2	13.2
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	8.7	9.5	8.7	11.5	11.8	14.4	20.0	12.0	8.7	11.7	12.0	11.8
Max Capacity	mw	86.0	85.2	86.0	42.2	43.8	13.0	13.0	62.4	86.0	76.8	68.5	43.9
Duration	hr/d	10.0	10.0	10.0	12.5	12.2	9.6	4.0	12.0	10.0	11.8	12.0	12.2
Total Load Following													
Min Capacity	mw	34.0	34.0	34.0	0.0	0.0	0.0	0.0	0.0	42.1	0.0	0.0	0.0
Max Capacity	mw	161.0	159.8	164.4	104.2	107.4	33.7	33.7	136.0	173.1	156.6	144.9	107.1
Total Project Capacity													
Min Capacity	mw	44.7	54.8	54.7	15.8	14.0	7.9	3.4	2.9	45.1	2.9	2.8	3.1
Max Capacity	mw	171.7	180.6	185.1	120.0	121.4	41.6	37.1	138.9	176.1	159.5	147.7	110.2