

COLORADO-BIG THOMPSON MONTHLY OPERATIONS

HYDROLOGY OPERATIONS  
 -----

Green Mtn Reservoir		Initial Cont Elev 7907.56 ft				80.6 kaf				Maximum Cont Elev 7949.91 ft				153.6 kaf				Minimum Cont Elev 7795.72 ft				6.0 kaf	
2010		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total									
Dillon Inflow	kaf	4.9	4.4	4.0	3.6	4.3	8.2	40.5	74.8	38.2	15.8	7.8	6.1	212.6									
Dillon-Grn Mtn Gain	kaf	4.8	4.2	3.8	3.2	4.1	8.8	28.3	48.9	26.8	13.3	8.4	6.4	161.0									
Undepleted Inflow	kaf	9.7	8.6	7.8	6.8	8.4	17.0	68.8	123.7	65.0	29.1	16.2	12.5	373.6									
Depletion	kaf	0.1	0.4	1.4	0.8	1.3	5.9	36.3	23.3	16.4	7.4	3.4	5.1	101.8									
Depleted Inflow	kaf	9.6	8.2	6.4	6.0	7.1	11.1	32.5	100.4	48.6	21.7	12.8	7.4	271.8									
Turbine Release	kaf	8.9	12.3	12.3	11.1	12.3	10.5	6.1	36.5	45.7	39.9	41.7	33.8	271.1									
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	8.9	12.3	12.3	11.1	12.3	10.5	6.1	36.5	45.7	39.9	41.7	33.8	271.1									
Min Release	cfs	150	200	200	200	200	176	100	100	550	649	700	550										
Total River Release	cfs	150	200	200	200	200	176	99	613	743	649	701	550										
Evaporation	kaf	0.1	0.0	0.0	0.0	0.2	0.3	0.5	0.8	0.9	0.6	0.5	0.3	4.2									
End-Month Targets	kaf						75.0	90.0	150.0	152.0													
End-Month Content	kaf	81.2	77.1	71.2	66.1	60.7	61.0	86.9	150.0	152.0	133.2	103.8	77.1										
End-Month Elevation	ft	7908.01	7904.90	7900.22	7895.94	7891.10	7891.38	7912.15	7948.20	7949.15	7939.85	7923.34	7904.90										
Willow Crk Reservoir		Initial Cont Elev 8123.73 ft				8.8 kaf				Maximum Cont Elev 8128.83 ft				10.2 kaf				5.0 kaf					
2010		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total									
Native Inflow	kaf	0.9	0.8	0.8	0.7	1.0	3.6	22.7	17.6	6.0	1.4	1.0	1.1	57.6									
Min Release	kaf	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	0.4	10.4									
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	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	0.4	10.4									
Pumped to Granby	kaf	1.7	0.0	0.0	0.0	2.5	2.4	19.3	13.9	4.7	0.7	0.6	1.5	47.3									
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.6									
End-Month Targets	kaf	7.2					7.2	9.0	10.0	9.0		9.0											
End-Month Content	kaf	7.2	7.6	8.0	8.3	6.4	7.2	9.0	10.0	9.0	9.1	9.0	8.1										
End-Month Elevation	ft	8116.90	8118.74	8120.48	8121.73	8112.89	8116.90	8124.50	8128.14	8124.50	8124.88	8124.50	8120.90										

Lake Granby		Initial Cont Elev 443.2 kaf 8266.12 ft				Maximum Cont Elev 536.1 kaf 8279.50 ft				Minimum Cont Elev 76.5 kaf 8186.91 ft				Total
2010		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Native inflow	kaf	1.3	1.4	1.4	1.2	1.5	4.8	23.4	35.8	17.6	5.3	2.3	2.1	98.1
Rels frm Shadow Mtn	kaf	2.7	2.8	1.2	1.1	1.2	1.2	3.2	51.0	11.4	2.5	2.1	2.2	82.6
Pump frm Windy Gap	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
Pump frm Willow Crk	kaf	1.7	0.0	0.0	0.0	2.5	2.4	19.3	13.9	4.7	0.7	0.6	1.5	47.3
Total Inflow	kaf	5.7	4.2	2.6	2.3	5.2	8.4	45.9	100.7	33.7	8.5	5.0	5.8	228.0
Min River Release	kaf	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0	1.4	24.6
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	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0	1.4	24.6
Pumped to Shadow Mtn	kaf	0.9	17.7	28.7	25.8	29.1	20.4	0.0	0.0	0.0	12.4	18.7	0.4	154.1
Evaporation	kaf	0.7	0.2	0.0	0.0	0.8	1.4	2.2	2.9	2.8	2.2	2.0	1.5	16.7
Seepage loss	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	4.0
End-Month Content	kaf	445.8	430.6	403.0	378.1	351.9	337.0	375.8	468.5	495.7	486.7	469.6	471.8	
End-Month Elevation	ft	8266.51	8264.20	8259.89	8255.87	8251.50	8248.94	8255.49	8269.89	8273.81	8272.52	8270.05	8270.37	
Shadow Mtn		Initial Cont Elev 17.7 kaf 8366.62 ft				Maximum Cont Elev 18.4 kaf 8367.00 ft				Minimum Cont Elev 16.6 kaf 8366.02 ft				Total
2010		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Native inflow	kaf	2.0	2.1	2.1	1.9	2.2	7.2	35.0	53.8	26.4	8.0	3.5	3.2	147.4
Pumped from Granby	kaf	0.9	17.7	28.7	25.8	29.1	20.4	0.0	0.0	0.0	12.4	18.7	0.4	154.1
Total Inflow	kaf	2.9	19.8	30.8	27.7	31.3	27.6	35.0	53.8	26.4	20.4	22.2	3.6	301.5
Min River Release	kaf	2.7	2.8	1.2	1.1	1.2	1.2	1.2	3.0	3.1	2.5	2.1	2.2	24.3
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	2.0	48.0	8.3	0.0	0.0	0.0	58.3
Total River Release	kaf	2.7	2.8	1.2	1.1	1.2	1.2	3.2	51.0	11.4	2.5	2.1	2.2	82.6
Adams Tunnel Flow	kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	214.2
Evaporation	kaf	0.2	0.1	0.0	0.0	0.3	0.4	0.7	0.8	0.7	0.6	0.5	0.4	4.7
End-Month Content	kaf	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	
End-Month Elevation	ft	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	8366.62	
Adams Tunnel	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Max Tunnel Capacity	kaf	0.0	16.9	33.8	30.5	33.8	32.7	33.8	32.7	33.8	17.9	32.7	1.0	299.6
Actual delivery	kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	214.2
% max delivery	%	0	100	88	87	88	80	92	6	42	97	60	100	
Big T @ Lake Estes	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Big Thompson inflow	kaf	1.8	1.2	1.0	0.7	1.0	3.3	15.1	32.2	16.1	6.9	3.8	2.6	85.7
Min river release	kaf	1.5	1.5	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	3.7	3.1	45.3
Act river release	kaf	1.5	1.2	1.0	0.7	1.0	2.2	12.4	7.4	7.7	6.9	3.7	2.6	48.3
Skim water available	kaf	0.3	0.0	0.0	0.0	0.0	1.1	8.2	24.8	8.4	0.0	0.1	0.0	42.9

Skim water diverted	kaf	0.3	0.0	0.0	0.0	0.0	1.1	2.7	24.8	8.4	0.0	0.1	0.0	37.4	
% skim diverted	%	100					100	33	100	100		100			
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.3	
Irrigation delivery	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.3	
Total river release	kaf	1.5	1.2	1.0	0.7	1.0	2.2	12.4	7.4	7.8	7.0	3.8	2.6	48.6	
Olympus Tunnel	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
Max Tunnel Capacity	kaf	3.3	30.4	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	30.4	361.7	
Actual delivery	kaf	0.3	16.9	29.6	26.6	29.8	27.1	33.8	26.8	22.6	17.2	19.6	1.0	251.3	
% max delivery	%	9	56	88	87	88	83	100	82	67	51	60	3		
Seepage and Evap	kaf	0.0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	1.5	
Inflow to Flatiron	kaf	0.3	16.7	29.5	26.5	29.7	27.0	33.7	26.7	22.5	17.0	19.4	0.8	249.8	
Carter Lake			Initial Cont		73.8 kaf		Maximum Cont		112.2 kaf		Minimum Cont		11.2 kaf		
			Elev		5723.08 ft		Elev		5758.98 ft		Elev		5639.99 ft		
	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
Pump from Flatiron	kaf	0.0	8.6	18.5	15.0	2.5	9.5	5.1	0.0	5.4	0.0	5.4	0.0	70.0	
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	4.3	4.3	
Evaporation loss	kaf	0.1	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.2	2.7	
Seepage loss	kaf	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.7	
End-Month Targets	kaf	72.0	85.0	96.0	110.0	109.0	112.0	107.0	98.0	90.0	70.0	63.0	49.0		
End-Month Content	kaf	71.8	78.6	95.3	108.7	109.0	112.0	107.0	98.8	90.0	72.0	63.0	49.4		
End-Month Elevation	ft	5721.06	5727.86	5743.79	5755.90	5756.16	5758.80	5754.39	5747.00	5738.84	5721.26	5711.91	5696.77		
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	3.5	5.2	2.7	8.3	12.0	9.3	6.3	47.3	
Metered delivery	kaf	1.4	1.3	1.3	1.1	1.4	2.1	2.7	2.9	3.5	4.0	3.4	2.2	27.3	
Windy Gap demand	kaf	0.4	0.4	0.4	0.4	0.4	0.4	1.6	1.9	1.8	1.6	1.3	0.5	11.1	
Total demand	kaf	1.8	1.7	1.7	1.5	1.8	6.0	9.5	7.5	13.6	17.6	14.0	9.0	85.7	
Total delivery	kaf	1.8	1.7	1.7	1.5	1.8	6.0	9.5	7.5	13.6	17.6	14.0	9.0	85.7	
% 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	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Minimum flow	kaf	0.0	1.5	4.6	4.2	4.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	25.4
Maximum flow	kaf	55.3	57.2	57.2	51.6	57.2	27.7	57.2	55.3	57.2	57.2	55.3	57.2	57.2	645.6
Actual flow	kaf	0.3	8.1	11.0	11.5	27.2	17.5	28.6	26.7	17.1	17.0	14.0	5.1	184.1	
Dille Tunnel	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total	
Big T @ Canyon Mouth	kaf	2.3	1.5	1.4	1.3	1.8	5.6	21.6	35.2	19.0	9.8	4.4	4.0	107.9	
Less Estes Skim	kaf	0.3	0.0	0.0	0.0	0.0	1.1	2.7	24.8	8.4	0.0	0.1	0.0	37.4	
Big T irr (Estes)	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.3	
Handy Ditch release	kaf	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.8	2.9	1.7	1.2	11.2	

Water available	kaf	2.0	1.5	1.4	1.3	1.8	3.3	17.7	9.2	8.9	7.0	2.7	2.8	59.6
Water diverted	kaf	0.0	0.0	0.0	0.0	0.0	3.3	17.7	0.0	8.9	7.0	2.7	2.8	42.4
% diverted	%						100	100		100	100	100	100	
Trifurcation Works	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Rels from Flatiron	kaf	0.3	8.1	11.0	11.5	27.2	17.5	28.6	26.7	17.1	17.0	14.0	5.1	184.1
Rels to 550 Canal	kaf	0.0	8.1	11.0	11.5	27.2	16.4	25.4	1.9	7.3	8.1	4.0	2.7	123.6
Big T irrigation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.4	8.9	9.9	2.4	23.1
Dille Tunnel	kaf	0.0	0.0	0.0	0.0	0.0	3.3	17.7	0.0	8.9	7.0	2.7	2.8	42.4
Tot rels to river	kaf	0.3	0.0	0.0	0.0	0.0	4.4	20.9	24.8	18.7	15.9	12.7	5.2	102.9
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.1	8.6	9.6	2.4	22.2
Big T irr (Estes)	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.3
Windy Gap demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.9
Total requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.5	9.0	10.0	2.4	23.4
Total delivery	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.5	9.0	10.0	2.4	23.4
% required delivery	%	0	0	0	0	0	0	100	0	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	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Inflow from Flatiron	kaf	0.0	8.1	11.0	11.5	27.2	16.4	25.4	1.9	7.3	8.1	4.0	2.7	123.6
Maximum flow	kaf	30.9	32.0	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	15.4	32.0	346.5
Seepage loss	kaf	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.2
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.2	0.5	0.4	1.6	1.0	5.4
Irrigation delivery	kaf	0.0	0.0	0.0	0.0	0.0	0.4	1.3	0.2	0.5	0.4	1.6	1.0	5.4
Minimum flow	kaf	0.0	4.6	4.6	4.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	25.4
Rels to Horsetooth	kaf	0.0	7.9	10.8	11.3	27.0	15.8	23.9	1.5	6.6	7.5	2.2	1.5	116.0
Horsetooth Reservoir		Initial Cont		68.7 kaf		Maximum Cont		156.7 kaf		Minimum Cont		5.0 kaf		
		Elev		5377.57 ft		Elev		5429.98 ft		Elev		5297.06 ft		
	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Inflow	kaf	0.0	7.9	10.8	11.3	27.0	15.8	23.9	1.5	6.6	7.5	2.2	1.5	116.0
Total irr delivery	kaf	1.4	1.3	1.2	1.2	1.7	2.2	9.0	5.3	20.8	28.9	14.7	11.6	99.3
Evaporation loss	kaf	0.1	0.0	0.0	0.0	0.2	0.4	0.7	0.9	0.7	0.5	0.4	0.3	4.2
Seepage loss	kaf	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.7
End-Month Targets	kaf	67.0	76.0	83.0	93.0	118.0	145.0	145.0	140.0	125.0	103.0	90.0	79.0	
End-Month Content	kaf	67.1	73.6	83.0	93.0	118.0	131.0	145.0	140.1	125.0	103.0	90.0	79.5	
End-Month Elevation	ft	5376.37	5381.17	5387.77	5394.39	5409.53	5416.76	5424.12	5421.59	5413.47	5400.67	5392.45	5385.36	
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	5.7	1.5	15.3	24.1	10.4	9.2	66.2
Metered delivery	kaf	1.0	0.9	0.8	0.8	1.3	1.8	2.9	3.4	4.2	3.5	3.0	2.0	25.6
Windy Gap demand	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.3	1.3	1.3	0.4	7.5
Total demand	kaf	1.4	1.3	1.2	1.2	1.7	2.2	9.0	5.3	20.8	28.9	14.7	11.6	99.3
Total irr delivery	kaf	1.4	1.3	1.2	1.2	1.7	2.2	9.0	5.3	20.8	28.9	14.7	11.6	99.3

% 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	2.4	2.2	2.1	1.9	2.7	7.8	18.3	10.7	33.0	52.7	37.4	23.1	194.3
Windy Gap Ownership	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Accrual	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 release	kaf	0.8	0.8	0.8	0.8	0.8	0.8	2.0	2.3	3.4	3.2	2.9	0.9	19.5
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	46.5	45.7	44.9	44.1	43.3	42.5	40.5	38.2	34.8	31.6	28.7	27.8	

PUMPING AND GENERATION OPERATIONS

-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Green Mtn Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Max Generation	gwh	18.000	9.300	9.300	8.400	9.069	17.235	18.600	18.000	18.600	18.600	18.000	18.600	181.704
Generation	gwh	1.543	2.117	2.073	1.826	1.977	1.668	1.027	7.162	9.638	8.273	8.184	6.093	51.581
% Max Generation	%	9	23	22	22	22	10	6	40	52	44	45	33	
Ave kwh/af		173	172	169	165	161	159	168	196	211	207	196	180	
Willow Crk Pumping	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Maximum pumping	kaf	26.8	0.0	0.0	0.0	27.7	26.8	27.7	26.8	27.7	27.7	26.8	27.7	245.7
Actual pumping	kaf	1.7	0.0	0.0	0.0	2.5	2.4	19.3	13.9	4.7	0.7	0.6	1.5	47.3
Pump energy	gwh	0.362	0.000	0.000	0.000	0.533	0.511	4.111	2.961	1.001	0.149	0.128	0.320	10.076
% max pumping	%	6				9	9	70	52	17	3	2	5	
Average kwh/af		213				213	213	213	213	213	213	213	213	
Lake Granby Pumping	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Maximum pumping	kaf	35.7	36.9	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	35.7	36.9	434.4
Actual pumping	kaf	0.9	17.7	28.7	25.8	29.1	20.4	0.0	0.0	0.0	12.4	18.7	0.4	154.1
Pump energy	gwh	0.131	2.567	4.190	3.818	4.365	3.101	0.000	0.000	0.000	1.761	2.674	0.057	22.664
% max pumping	%	3	48	78	77	79	57				34	52	1	
Average kwh/af		145	145	146	148	150	152				142	143	143	
Marys Lake Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Adams Tunnel Flow	kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	
Max generation	gwh	0.000	5.380	6.060	5.400	6.060	5.840	6.060	5.840	6.060	6.060	5.840	5.380	63.980
Generation	gwh	0.000	2.980	5.260	4.720	5.280	4.600	5.520	0.300	2.530	3.060	3.520	0.000	37.770
% Max Generation	%		55	87	87	87	79	91	5	42	50	60		
Ave kwh/af			176	178	177	177	177	177	150	177	177	180		
Lake Estes Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Adams Tunnel Flow	kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	

Max generation	gwh	14.450	14.920	11.940	10.060	10.450	9.660	9.980	10.060	14.920	14.920	14.450	14.920	150.730
Generation	gwh	0.000	7.760	11.940	10.060	10.450	9.660	9.980	0.800	6.650	7.920	8.740	0.000	83.960
% Max Generation	%		52	100	100	100	100	100	8	45	53	60		
Ave kwh/af			459	441	439	441	441	440	400	465	458	446		

Pole Hill Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Olympus Tunnel flow	kaf	0.3	16.9	29.6	26.6	29.8	27.1	33.8	26.8	22.6	17.2	19.6	1.0	251.3
Max generation	gwh	0.000	22.720	25.260	22.800	25.260	24.460	25.260	24.460	25.260	25.260	24.460	22.720	267.920
Generation	gwh	0.000	4.640	10.200	9.240	10.200	9.880	10.200	9.880	10.200	10.200	9.880	0.000	94.520
% Max Generation	%		20	40	41	40	40	40	40	40	40	40		
Ave kwh/af			275	345	347	342	365	302	369	451	593	504		

Flatiron 1&2 Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Inflow to Flatiron	kaf	0.3	16.7	29.5	26.5	29.7	27.0	33.7	26.7	22.5	17.0	19.4	0.8	249.8
Max generation	gwh	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	123.830
Generation	gwh	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	0.000	111.780
% Max Generation	%		100	100	100	100	100	100	100	100	100	100		
Ave kwh/af			821	893	892	893	892	893	892	893	893	892		

Flatiron 3 Pump/Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Maximum pumping	kaf	19.8	20.1	18.6	15.1	15.9	15.3	15.9	16.1	17.7	19.3	20.4	22.7	216.9
Pump from Flatiron	kaf	0.0	8.6	18.5	15.0	2.5	9.5	5.1	0.0	5.4	0.0	5.4	0.0	70.0
Pump energy	gwh	0.000	2.726	6.309	5.625	0.978	3.753	2.004	0.000	1.928	0.000	1.636	0.000	24.959
% max pumping	%		43	99	99	16	62	32		31		26		
Average kwh/af			317	341	375	391	395	393		357		303		

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	4.3	4.3
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	4.393	4.393
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	0.821	0.821
% max generation	%												19	
Average kwh/af													191	

Big Thompson Gen	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Total release	kaf	0.3	0.0	0.0	0.0	0.0	4.4	20.9	24.8	18.7	15.9	12.7	5.2	102.9
Turbine release	kaf	0.0	0.0	0.0	0.0	0.0	4.4	20.9	23.9	18.7	15.9	12.7	5.2	101.7
Wasteway release	kaf	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	1.2
Max generation	gwh	0.000	0.000	0.000	0.000	0.000	3.800	3.940	3.800	3.940	3.940	3.800	3.940	27.160
Generation	gwh	0.000	0.000	0.000	0.000	0.000	0.480	3.280	3.800	2.840	2.380	1.840	0.540	15.160
% Max Generation	%						13	83	100	72	60	48	14	
Ave kwh/af							109	157	159	152	150	145	104	

PROJECT GENERATION AND PUMPING SUMMARY

Project Generation	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
--------------------	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-------

-----  
 Base Generation:

Big Thompson	gwh	0.000	0.000	0.000	0.000	0.000	0.480	3.280	3.800	2.840	2.380	1.840	0.540	15.160
Green Mtn	gwh	1.543	2.117	2.073	1.826	1.977	1.668	1.027	7.162	9.638	8.273	8.184	6.093	51.581
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	0.821	0.821
Total	gwh	1.543	2.117	2.073	1.826	1.977	2.148	4.307	10.962	12.478	10.653	10.024	7.454	67.562

Load Following Generation:

Marys Lake	gwh	0.000	2.980	5.260	4.720	5.280	4.600	5.520	0.300	2.530	3.060	3.520	0.000	37.770
Lake Estes	gwh	0.000	7.760	11.940	10.060	10.450	9.660	9.980	0.800	6.650	7.920	8.740	0.000	83.960
Pole Hill	gwh	0.000	4.640	10.200	9.240	10.200	9.880	10.200	9.880	10.200	10.200	9.880	0.000	94.520
Flatiron 1,2	gwh	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	0.000	111.780
Total	gwh	0.000	20.960	39.450	34.900	37.980	35.830	37.750	22.670	31.430	33.230	33.830	0.000	328.030

Total generation	gwh	1.543	23.077	41.523	36.726	39.957	37.978	42.057	33.632	43.908	43.883	43.854	7.454	395.592
Total max generation	gwh	32.450	57.900	64.610	57.540	62.889	72.685	75.890	73.850	80.830	80.830	78.240	82.003	819.717

Project Pump Energy 2010

		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Granby	gwh	0.131	2.567	4.190	3.818	4.365	3.101	0.000	0.000	0.000	1.761	2.674	0.057	22.664
Willow Creek	gwh	0.362	0.000	0.000	0.000	0.533	0.511	4.111	2.961	1.001	0.149	0.128	0.320	10.076
Flatiron 3	gwh	0.000	2.726	6.309	5.625	0.978	3.753	2.004	0.000	1.928	0.000	1.636	0.000	24.959
Total pump energy	gwh	0.493	5.293	10.499	9.443	5.876	7.365	6.115	2.961	2.929	1.910	4.438	0.377	57.699

Total net generation	gwh	1.050	17.784	31.024	27.283	34.081	30.613	35.942	30.671	40.979	41.973	39.416	7.077	337.893
----------------------	-----	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	-------	---------

Release Flexibility 2010

		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
Adams Tunnel	Min kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	
Adams Tunnel	Max kaf	0.0	16.9	29.6	26.6	29.8	26.0	31.1	2.0	14.3	17.3	19.6	1.0	
Marys Lake	Min gwh	0.000	2.980	5.260	4.720	5.280	4.600	5.520	0.300	2.530	3.060	3.520	0.000	
Marys Lake	Max gwh	0.000	2.980	5.260	4.720	5.280	4.600	5.520	0.300	2.530	3.060	3.520	0.000	
Lake Estes	Min gwh	0.000	7.760	11.940	10.060	10.450	9.660	9.980	0.800	6.650	7.920	8.740	0.000	
Lake Estes	Max gwh	0.000	7.760	11.940	10.060	10.450	9.660	9.980	0.800	6.650	7.920	8.740	0.000	
Olympus Tunnel	Min kaf	0.3	16.9	29.6	26.6	29.8	27.1	33.8	26.8	22.6	17.2	19.6	1.0	
Olympus Tunnel	Max kaf	0.3	16.9	29.6	26.6	29.8	27.1	33.8	26.8	22.6	17.2	19.6	1.0	
Pole Hill	Min gwh	0.000	12.910	22.120	19.880	22.260	20.270	25.260	20.040	16.920	13.160	14.800	0.000	
Pole Hill	Max gwh	0.000	12.910	22.120	19.880	22.260	20.270	25.260	20.040	16.920	13.160	14.800	0.000	
Flatiron 1&2	Min gwh	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	0.000	
Flatiron 1&2	Max gwh	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	0.000	
Load following	Min gwh	0.000	29.230	51.370	45.540	50.040	46.220	52.810	32.830	38.150	36.190	38.750	0.000	
Load following	Max gwh	0.000	29.230	51.370	45.540	50.040	46.220	52.810	32.830	38.150	36.190	38.750	0.000	

Total project	Min gwh	1.543	31.347	53.443	47.366	52.017	48.368	57.117	43.792	50.628	46.843	48.774	7.454
Total project	Max gwh	1.543	31.347	53.443	47.366	52.017	48.368	57.117	43.792	50.628	46.843	48.774	7.454

GENERATION CAPACITY AND DURATION

Project Generation	2010	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
<b>Base Generation:</b>														
Green Mtn	mw	2.1	2.8	2.8	2.7	2.7	2.3	1.4	9.9	13.0	11.1	11.4	8.2	
Flatiron 3	mw												1.1	
Big Thompson	mw						0.7	4.4	5.3	3.8	3.2	2.6	0.7	
Total base load	mw	2.1	2.8	2.8	2.7	2.7	3.0	5.8	15.2	16.8	14.3	14.0	10.0	
<b>Load Following Generation:</b>														
<b>Marys Lake</b>														
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	12.0	10.9	1.8	3.9	1.7	4.3	1.5	20.0	10.9	10.7	9.0	12.0	
Max Capacity	mw	0.0	8.1	8.1	8.1	8.1	8.1	8.1	2.7	6.8	8.1	8.1	0.0	
Duration	hr/d	12.0	12.1	21.3	19.1	21.5	18.7	22.5	4.0	12.1	12.3	14.0	12.0	
<b>Lake Estes</b>														
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	12.0	12.0	12.0	12.0	12.0	12.0	12.5	20.0	12.0	12.0	12.0	12.0	
Max Capacity	mw	0.0	20.8	37.4	33.1	37.7	32.4	42.3	7.0	17.1	21.2	24.0	0.0	
Duration	hr/d	12.0	12.0	12.0	12.0	12.0	12.0	11.2	4.0	12.0	12.0	12.0	12.0	
<b>Pole Hill</b>														
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	12.0	11.6	2.4	4.5	2.3	4.1	12.0	4.3	7.4	11.4	9.6	12.0	
Max Capacity	mw	0.0	33.9	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	0.0	
Duration	hr/d	12.0	12.5	21.7	19.5	21.9	19.9	12.0	19.7	16.6	12.6	14.4	12.0	
<b>Flatiron 1&amp;2</b>														
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	12.0	11.4	11.8	12.0	11.7	12.0	8.7	12.0	12.0	11.2	12.0	12.0	
Max Capacity	mw	0.0	42.4	76.0	65.5	76.8	67.0	86.0	66.1	55.0	43.0	46.8	0.0	
Duration	hr/d	12.0	12.6	11.9	12.0	11.8	12.0	10.0	12.0	12.0	12.8	12.0	12.0	
<b>Total Load Following</b>														
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	36.7	0.0	0.0	0.0	0.0	0.0	
Max Capacity	mw	0.0	105.2	155.5	140.7	156.6	141.5	170.4	109.8	112.9	106.3	112.9	0.0	
<b>Total Project Capacity</b>														
Min Capacity	mw	2.1	2.8	2.8	2.7	2.7	3.0	42.5	15.2	16.8	14.3	14.0	10.0	
Max Capacity	mw	2.1	108.0	158.3	143.4	159.3	144.5	176.2	125.0	129.7	120.6	126.9	10.0	