

COLORADO-BIG THOMPSON MONTHLY OPERATIONS

HYDROLOGY OPERATIONS

Green Mtn Reservoir		Initial Cont Elev 7898.40 ft				69.0 kaf 8115.94 ft				Maximum Cont Elev 7949.91 ft				153.6 kaf 8128.83 ft				Minimum Cont Elev 7795.72 ft				6.0 kaf 8104.78 ft	
	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total									
Dillon Inflow	kaf	4.0	3.6	4.3	8.2	40.5	74.8	38.2	15.8	7.8	8.2	6.1	4.4	215.9									
Dillon-Grn Mtn Gain	kaf	3.8	3.2	4.1	8.8	28.3	48.9	26.8	13.3	8.4	8.8	6.4	4.2	165.0									
Undepleted Inflow	kaf	7.8	6.8	8.4	17.0	68.8	123.7	65.0	29.1	16.2	17.0	12.5	8.6	380.9									
Depletion	kaf	0.3	-0.3	0.0	4.6	36.3	23.3	16.4	7.4	3.4	2.1	0.7	0.0	94.2									
Depleted Inflow	kaf	7.5	7.1	8.4	12.4	32.5	100.4	48.6	21.7	12.8	14.9	11.8	8.6	286.7									
Turbine Release	kaf	12.3	11.1	12.3	10.5	6.1	41.2	40.5	39.9	44.2	36.9	15.5	11.5	282.0									
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	12.3	11.1	12.3	10.5	6.1	41.2	40.5	39.9	44.2	36.9	15.5	11.5	282.0									
Min Release	cfs	200	200	200	176	100	693	659	649	743	600	260	187										
Total River Release	cfs	200	200	200	176	99	692	659	649	743	600	260	187										
Evaporation	kaf	0.0	0.0	0.1	0.2	0.4	0.8	0.8	0.6	0.5	0.3	0.1	0.0	3.8									
End-Month Targets	kaf				75.0	90.0	145.0	152.0															
End-Month Content	kaf	64.2	60.2	56.2	57.9	83.9	142.3	149.6	130.8	98.9	76.6	72.8	69.9										
End-Month Elevation	ft	7894.27	7890.63	7886.80	7888.45	7909.99	7944.45	7948.01	7938.60	7920.25	7904.52	7901.52	7899.15										

Willow Crk Reservoir		Initial Cont Elev 8115.94 ft				7.0 kaf 8115.94 ft				Maximum Cont Elev 8128.83 ft				10.2 kaf 8128.83 ft				Minimum Cont Elev 8104.78 ft				5.0 kaf 8104.78 ft	
	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total									
Native Inflow	kaf	0.8	0.7	1.0	3.6	22.7	17.6	4.0	1.6	1.4	1.2	1.2	0.8	56.6									
Min Release	kaf	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	0.4	0.8	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	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	0.4	0.8	0.4	10.4									
Pumped to Granby	kaf	0.0	0.0	2.2	2.1	19.3	13.9	2.7	1.0	0.9	1.5	1.4	0.0	45.0									
Evaporation	kaf	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.6									
End-Month Targets	kaf				7.2	9.0	10.0	9.0		9.0		7.2											
End-Month Content	kaf	7.4	7.7	6.1	7.2	9.0	10.0	9.0	9.0	9.0	8.2	7.2	7.6										
End-Month Elevation	ft	8117.83	8119.18	8111.27	8116.90	8124.50	8128.14	8124.50	8124.50	8124.50	8121.32	8116.90	8118.74										

Lake Granby		Initial Cont Elev 356.8 kaf 8252.33 ft				Maximum Cont Elev 536.1 kaf 8279.50 ft				Minimum Cont Elev 76.5 kaf 8186.91 ft				Total
2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Native inflow	kaf	1.4	1.2	1.5	4.8	23.4	35.8	13.6	4.7	2.4	2.3	1.4	1.4	93.9
Rels frm Shadow Mtn	kaf	1.2	1.1	1.2	1.2	23.0	46.1	7.8	2.5	2.1	2.2	2.7	2.8	93.9
Pump frm Windy Gap	kaf	0.0	0.0	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Pump frm Willow Crk	kaf	0.0	0.0	2.2	2.1	19.3	13.9	2.7	1.0	0.9	1.5	1.4	0.0	45.0
Total Inflow	kaf	2.6	2.3	4.9	8.1	80.7	110.8	24.1	8.2	5.4	6.0	5.5	4.2	262.8
Min River Release	kaf	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0	1.4	1.2	1.2	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	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0	1.4	1.2	1.2	24.6
Pumped to Shadow Mtn	kaf	29.1	24.3	27.1	20.8	0.0	0.0	0.0	20.2	20.1	29.5	4.2	30.8	206.1
Evaporation	kaf	0.0	0.0	0.8	1.2	2.0	2.8	2.7	2.1	1.9	1.4	0.6	0.2	15.7
Seepage loss	kaf	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.3	0.3	0.3	4.0
End-Month Content	kaf	328.8	305.4	280.9	265.5	339.3	442.2	459.9	442.9	424.9	398.3	397.5	369.2	
End-Month Elevation	ft	8247.52	8243.35	8238.81	8235.84	8249.34	8265.97	8268.62	8266.08	8263.32	8259.14	8259.01	8254.40	
Shadow Mtn		Initial Cont Elev 17.8 kaf 8366.68 ft				Maximum Cont Elev 18.4 kaf 8367.00 ft				Minimum Cont Elev 16.6 kaf 8366.02 ft				Total
2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Native inflow	kaf	2.1	1.9	2.2	7.2	35.0	53.8	20.4	7.1	3.6	3.5	2.0	2.1	140.9
Pumped from Granby	kaf	29.1	24.3	27.1	20.8	0.0	0.0	0.0	20.2	20.1	29.5	4.2	30.8	206.1
Total Inflow	kaf	31.2	26.2	29.3	28.0	35.0	53.8	20.4	27.3	23.7	33.0	6.2	32.9	347.0
Min River Release	kaf	1.2	1.1	1.2	1.2	1.2	3.0	3.1	2.5	2.1	2.2	2.7	2.8	24.3
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	21.8	43.1	4.7	0.0	0.0	0.0	0.0	0.0	69.6
Total River Release	kaf	1.2	1.1	1.2	1.2	23.0	46.1	7.8	2.5	2.1	2.2	2.7	2.8	93.9
Adams Tunnel Flow	kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	248.4
Evaporation	kaf	0.0	0.0	0.3	0.4	0.7	0.8	0.7	0.6	0.5	0.4	0.2	0.1	4.7
End-Month Content	kaf	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	
End-Month Elevation	ft	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	8366.68	
Adams Tunnel	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Max Tunnel Capacity	kaf	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	33.8	16.4	33.8	381.6
Actual delivery	kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	248.4
% max delivery	%	89	82	82	81	33	21	35	72	65	90	20	89	
Big T @ Lake Estes	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Big Thompson inflow	kaf	1.0	0.7	1.0	3.3	15.1	32.2	16.4	8.4	3.8	2.6	1.8	1.2	87.5

Min river release	kaf	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	3.7	3.1	1.5	1.5	45.3
Act river release	kaf	1.0	0.7	1.0	2.2	6.9	7.4	7.7	6.9	3.7	2.6	1.5	1.2	42.8
Skim water available	kaf	0.0	0.0	0.0	1.1	8.2	24.8	8.7	1.5	0.1	0.0	0.3	0.0	44.7
Skim water diverted	kaf	0.0	0.0	0.0	1.1	8.2	24.8	8.7	1.5	0.1	0.0	0.3	0.0	44.7
% skim diverted	%				100	100	100	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	1.0	0.7	1.0	2.2	6.9	7.4	7.7	6.9	3.7	2.6	1.5	1.2	42.8

Olympus Tunnel	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Max Tunnel Capacity	kaf	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	30.4	16.4	33.8	378.2
Actual delivery	kaf	30.0	25.1	27.8	27.5	19.5	31.7	20.6	25.7	21.2	30.4	3.6	30.0	293.1
% max delivery	%	89	82	82	84	58	97	61	76	65	100	22	89	
Seepage and Evap	kaf	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	1.7
Inflow to Flatiron	kaf	29.9	25.0	27.7	27.4	19.4	31.6	20.5	25.5	21.0	30.2	3.4	29.8	291.4

Carter Lake	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
				Initial Cont Elev 5711.48 ft	62.6 kaf			Maximum Cont Elev 5758.98 ft	112.2 kaf			Minimum Cont Elev 5639.99 ft	11.2 kaf	
Pump from Flatiron	kaf	20.5	16.6	4.1	9.6	0.0	0.0	0.0	8.0	5.2	7.0	0.0	20.6	91.6
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	0.0	0.0	0.2	0.3	0.4	0.5	0.4	0.3	0.3	0.2	0.1	0.0	2.7
Seepage loss	kaf	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	1.7
End-Month Targets	kaf	81.4	96.4	98.4	102.0	94.0	84.0	67.0	56.0	49.0	45.0	40.0	66.2	
End-Month Content	kaf	81.4	96.4	98.4	102.0	94.3	84.0	67.4	56.0	49.0	45.0	43.3	62.4	
End-Month Elevation	ft	5730.59	5744.80	5746.64	5749.91	5742.86	5733.11	5716.53	5704.29	5696.30	5691.55	5689.49	5711.27	

Irrigation demand	kaf	0.0	0.0	0.0	3.3	2.7	4.3	9.8	13.3	7.2	7.5	0.0	0.0	48.1
Metered delivery	kaf	1.2	1.1	1.3	1.7	2.4	2.9	3.8	3.6	2.9	2.6	1.1	1.0	25.6
Windy Gap demand	kaf	0.4	0.4	0.4	0.5	2.0	2.4	2.4	2.1	1.7	0.6	0.4	0.4	13.7
Total demand	kaf	1.6	1.5	1.7	5.5	7.1	9.6	16.0	19.0	11.8	10.7	1.5	1.4	87.4
Total delivery	kaf	1.6	1.5	1.7	5.5	7.1	9.6	16.0	19.0	11.8	10.7	1.5	1.4	87.4
% 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	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Minimum flow	kaf		6.1	5.6	6.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	31.3
Maximum flow	kaf		57.2	51.6	57.2	27.7	57.2	55.3	57.2	57.2	55.3	57.2	55.3	57.2	645.6
Actual flow	kaf		9.4	8.4	23.6	17.8	19.4	31.6	20.5	17.5	15.8	23.2	3.4	9.2	199.8

Dille Tunnel	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
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Big T @ Canyon Mouth	kaf	1.4	1.3	1.8	5.6	21.6	35.2	21.8	10.9	5.1	4.0	2.3	1.5	112.5
Less Estes Skim	kaf	0.0	0.0	0.0	1.1	8.2	24.8	8.7	1.5	0.1	0.0	0.3	0.0	44.7
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	0.0	0.0	0.0	1.2	1.2	1.2	1.8	2.9	1.7	1.2	0.0	0.0	11.2
Water available	kaf	1.4	1.3	1.8	3.3	12.2	9.2	11.3	6.5	3.3	2.8	2.0	1.5	56.6
Water diverted	kaf	0.0	0.0	0.0	3.3	12.2	0.0	11.3	6.5	3.3	2.8	0.0	0.0	39.4
% diverted	%				100	100		100	100	100	100			

Trifurcation Works	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Rels from Flatiron	kaf	9.4	8.4	23.6	17.8	19.4	31.6	20.5	17.5	15.8	23.2	3.4	9.2	199.8
Rels to 550 Canal	kaf	9.4	8.4	23.6	16.0	9.0	4.9	8.4	10.1	9.4	12.8	3.1	9.2	124.3
Big T irrigation	kaf	0.0	0.0	0.0	0.7	2.2	1.9	3.4	5.9	6.3	10.4	0.0	0.0	30.8
Dille Tunnel	kaf	0.0	0.0	0.0	3.3	12.2	0.0	11.3	6.5	3.3	2.8	0.0	0.0	39.4
Tot rels to river	kaf	0.0	0.0	0.0	5.1	22.6	26.7	23.4	13.9	9.7	13.2	0.3	0.0	114.9
Irrigation demand	kaf	0.0	0.0	0.0	0.7	2.2	1.9	3.0	5.5	6.0	10.4	0.0	0.0	29.7
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
Windy Gap demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.0	0.0	0.0	1.1
Total requirement	kaf	0.0	0.0	0.0	0.7	2.2	1.9	3.4	5.9	6.3	10.4	0.0	0.0	30.8
Total delivery	kaf	0.0	0.0	0.0	0.7	2.2	1.9	3.4	5.9	6.3	10.4	0.0	0.0	30.8
% required delivery	%	0	0	0	100	100	100	100	100	100	100	0	0	
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	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Inflow from Flatiron	kaf	9.4	8.4	23.6	16.0	9.0	4.9	8.4	10.1	9.4	12.8	3.1	9.2	124.3
Maximum flow	kaf	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	30.9	16.0	30.9	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	0.3	0.2	0.3	0.3	0.5	0.4	1.0	1.0	0.9	0.7	0.2	0.2	6.0
Irrigation delivery	kaf	0.3	0.2	0.3	0.3	0.5	0.4	1.0	1.0	0.9	0.7	0.2	0.2	6.0
Minimum flow	kaf	3.1	2.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	20.9
Rels to Horsetooth	kaf	8.9	8.0	23.1	15.5	8.3	4.3	7.2	8.9	8.3	11.9	2.7	8.8	115.9

Horsetooth Reservoir		Initial Cont			79.2 kaf	Maximum Cont			156.7 kaf	Minimum Cont			5.0 kaf	
		Elev			5385.15 ft	Elev			5429.98 ft	Elev			5297.06 ft	
	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Inflow	kaf	8.9	8.0	23.1	15.5	8.3	4.3	7.2	8.9	8.3	11.9	2.7	8.8	115.9
Total irr delivery	kaf	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	18.5	1.6	1.6	109.3
Evaporation loss	kaf	0.0	0.0	0.2	0.4	0.7	0.8	0.7	0.5	0.4	0.3	0.1	0.0	4.1
Seepage loss	kaf	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	1.7
End-Month Targets	kaf	85.9	91.9	112.7	125.0	125.0	120.0	105.0	87.0	79.0	72.0	72.9	80.0	
End-Month Content	kaf	85.9	91.9	112.7	125.0	125.0	120.0	105.0	87.0	79.0	72.0	72.9	80.0	

End-Month Elevation	ft	5389.73	5393.68	5406.47	5413.47	5413.47	5410.67	5401.89	5390.47	5385.01	5380.01	5380.67	5385.71	
Irrigation demand	kaf	0.0	0.0	0.0	0.1	3.5	4.1	13.8	19.5	10.4	15.6	0.0	0.0	67.0
Metered delivery	kaf	1.6	1.5	1.6	2.1	3.5	3.8	6.0	5.3	4.0	2.5	1.2	1.2	34.3
Windy Gap demand	kaf	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.5	1.4	0.4	0.4	0.4	8.0
Total demand	kaf	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	18.5	1.6	1.6	109.3
Total irr delivery	kaf	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	18.5	1.6	1.6	109.3
% 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	3.1	2.8	3.2	8.2	14.8	17.4	37.4	48.2	31.4	39.3	2.5	2.4	210.7
Windy Gap Ownership 2009		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Accrual	kaf	0.0	0.0	0.0	0.0	13.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	27.0
Total release	kaf	0.8	0.8	0.8	0.9	2.4	2.8	4.3	4.0	3.4	1.0	0.8	0.8	22.8
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	49.1	48.3	47.5	46.6	57.7	68.4	64.1	60.1	56.7	55.7	54.9	54.1	

PUMPING AND GENERATION OPERATIONS

Green Mtn Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Max Generation	gwh	9.274	8.121	8.735	16.763	18.600	18.000	18.600	18.600	18.000	18.600	18.000	9.300	180.593
Generation	gwh	2.005	1.774	1.930	1.639	1.014	7.974	8.455	8.232	8.594	6.582	2.618	1.915	52.732
% Max Generation	%	22	22	22	10	5	44	45	44	48	35	15	21	
Ave kwh/af		163	160	157	156	166	194	209	206	194	178	169	167	
Willow Crk Pumping	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Maximum pumping	kaf	0.0	0.0	27.7	26.8	27.7	26.8	27.7	27.7	26.8	27.7	26.8	0.0	245.7
Actual pumping	kaf	0.0	0.0	2.2	2.1	19.3	13.9	2.7	1.0	0.9	1.5	1.4	0.0	45.0
Pump energy	gwh	0.000	0.000	0.469	0.447	4.111	2.961	0.575	0.213	0.192	0.320	0.298	0.000	9.586
% max pumping	%			8	8	70	52	10	4	3	5	5		
Average kwh/af				213	213	213	213	213	213	213	213	213		
Lake Granby Pumping	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Maximum pumping	kaf	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	35.7	36.9	35.7	36.9	434.4
Actual pumping	kaf	29.1	24.3	27.1	20.8	0.0	0.0	0.0	20.2	20.1	29.5	4.2	30.8	206.1
Pump energy	gwh	4.423	3.767	4.282	3.349	0.000	0.000	0.000	2.909	2.915	4.337	0.617	4.589	31.188
% max pumping	%	79	73	73	58				55	56	80	12	83	
Average kwh/af		152	155	158	161				144	145	147	147	149	
Marys Lake Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total

Adams Tunnel Flow	kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	
Max generation	gwh	6.060	5.400	6.060	5.840	6.060	5.840	6.060	6.060	5.840	5.380	0.000	0.000	58.600
Generation	gwh	5.300	4.510	4.960	4.680	1.960	1.090	2.080	4.340	3.720	5.380	0.000	0.000	38.020
% Max Generation	%	87	84	82	80	32	19	34	72	64	100			
Ave kwh/af		177	180	178	177	173	158	175	179	176	177			
Lake Estes Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Adams Tunnel Flow	kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	
Max generation	gwh	11.940	10.060	10.450	9.660	9.980	10.060	14.920	14.920	14.450	14.920	14.450	14.920	150.730
Generation	gwh	11.940	10.060	10.450	9.660	5.110	2.860	5.530	10.680	9.340	13.400	1.420	13.200	103.650
% Max Generation	%	100	100	100	100	51	28	37	72	65	90	10	88	
Ave kwh/af		441	439	441	441	452	414	465	441	443	441	430	440	
Pole Hill Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Olympus Tunnel flow	kaf	30.0	25.1	27.8	27.5	19.5	31.7	20.6	25.7	21.2	30.4	3.6	30.0	293.1
Max generation	gwh	25.260	22.800	25.260	24.460	25.260	24.460	25.260	25.260	24.460	22.720	0.000	5.750	250.950
Generation	gwh	10.200	9.240	10.200	9.880	10.200	9.880	10.200	10.200	9.880	10.200	0.000	4.640	104.720
% Max Generation	%	40	41	40	40	40	40	40	40	40	45		81	
Ave kwh/af		340	368	367	359	523	312	495	397	466	336		546	
Flatiron 1&2 Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Inflow to Flatiron	kaf	29.9	25.0	27.7	27.4	19.4	31.6	20.5	25.5	21.0	30.2	3.4	29.8	291.4
Max generation	gwh	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	0.000	5.580	123.830
Generation	gwh	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	0.000	5.580	123.830
% Max Generation	%	100	100	100	100	100	100	100	100	100	100		100	
Ave kwh/af		893	892	893	892	893	892	893	893	892	893		821	
Flatiron 3 Pump/Gen	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Maximum pumping	kaf	20.5	16.6	17.3	9.8	0.0	17.7	20.0	21.9	22.4	24.0	23.6	20.8	214.6
Pump from Flatiron	kaf	20.5	16.6	4.1	9.6	0.0	0.0	0.0	8.0	5.2	7.0	0.0	20.6	91.6
Pump energy	gwh	6.376	5.727	1.492	3.552	0.000	0.000	0.000	2.336	1.451	1.897	0.000	5.747	28.578
% max pumping	%	100	100	24	98				37	23	29		99	
Average kwh/af		311	345	364	370				292	279	271		279	
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	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total release	kaf	0.0	0.0	0.0	5.1	22.6	26.7	23.4	13.9	9.7	13.2	0.3	0.0	114.9

Turbine release	kaf	0.0	0.0	0.0	5.1	22.6	23.9	23.4	13.9	9.7	13.2	0.0	0.0	111.8
Wasteway release	kaf	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.3	0.0	3.1
Max generation	gwh	0.000	0.000	0.000	3.800	3.940	3.800	3.940	3.940	3.800	3.940	0.000	0.000	27.160
Generation	gwh	0.000	0.000	0.000	0.520	3.620	3.800	3.780	2.000	1.240	1.940	0.000	0.000	16.900
% Max Generation	%				14	92	100	96	51	33	49			
Ave kwh/af					102	160	159	162	144	128	147			

PROJECT GENERATION AND PUMPING SUMMARY

Project Generation	2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Base Generation:														
Big Thompson	gwh	0.000	0.000	0.000	0.520	3.620	3.800	3.780	2.000	1.240	1.940	0.000	0.000	16.900
Green Mtn	gwh	2.005	1.774	1.930	1.639	1.014	7.974	8.455	8.232	8.594	6.582	2.618	1.915	52.732
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	2.005	1.774	1.930	2.159	4.634	11.774	12.235	10.232	9.834	8.522	2.618	1.915	69.632
Load Following Generation:														
Marys Lake	gwh	5.300	4.510	4.960	4.680	1.960	1.090	2.080	4.340	3.720	5.380	0.000	0.000	38.020
Lake Estes	gwh	11.940	10.060	10.450	9.660	5.110	2.860	5.530	10.680	9.340	13.400	1.420	13.200	103.650
Pole Hill	gwh	10.200	9.240	10.200	9.880	10.200	9.880	10.200	10.200	9.880	10.200	0.000	4.640	104.720
Flatiron 1,2	gwh	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	0.000	5.580	123.830
Total	gwh	39.490	34.690	37.660	35.910	29.320	25.520	29.860	37.270	34.630	41.030	1.420	23.420	370.220
Total generation	gwh	41.495	36.464	39.590	38.069	33.954	37.294	42.095	47.502	44.464	49.552	4.038	25.335	439.852
Total max generation	gwh	64.584	57.261	62.555	72.213	75.890	73.850	80.830	80.830	78.240	77.610	32.450	35.550	791.863
Project Pump Energy 2009														
Granby	gwh	4.423	3.767	4.282	3.349	0.000	0.000	0.000	2.909	2.915	4.337	0.617	4.589	31.188
Willow Creek	gwh	0.000	0.000	0.469	0.447	4.111	2.961	0.575	0.213	0.192	0.320	0.298	0.000	9.586
Flatiron 3	gwh	6.376	5.727	1.492	3.552	0.000	0.000	0.000	2.336	1.451	1.897	0.000	5.747	28.578
Total pump energy	gwh	10.799	9.494	6.243	7.348	4.111	2.961	0.575	5.458	4.558	6.554	0.915	10.336	69.352
Total net generation	gwh	30.696	26.970	33.347	30.721	29.843	34.333	41.520	42.044	39.906	42.998	3.123	14.999	370.500
Release Flexibility 2009														
Adams Tunnel	Min kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	
Adams Tunnel	Max kaf	30.0	25.1	27.8	26.4	11.3	6.9	11.9	24.2	21.1	30.4	3.3	30.0	
Marys Lake	Min gwh	5.300	4.510	4.960	4.680	1.960	1.090	2.080	4.340	3.720	5.380	0.000	0.000	
Marys Lake	Max gwh	5.300	4.510	4.960	4.680	1.960	1.090	2.080	4.340	3.720	5.380	0.000	0.000	
Lake Estes	Min gwh	11.940	10.060	10.450	9.660	5.110	2.860	5.530	10.680	9.340	13.400	1.420	13.200	
Lake Estes	Max gwh	11.940	10.060	10.450	9.660	5.110	2.860	5.530	10.680	9.340	13.400	1.420	13.200	

Olympus Tunnel	Min kaf	30.0	25.1	27.8	27.5	19.5	31.7	20.6	25.7	21.2	30.4	3.6	30.0
Olympus Tunnel	Max kaf	30.0	25.1	27.8	27.5	19.5	31.7	20.6	25.7	21.2	30.4	3.6	30.0
Pole Hill	Min gwh	22.400	18.770	20.760	20.550	14.750	23.690	15.420	19.190	15.860	22.720	0.000	5.750
Pole Hill	Max gwh	22.400	18.770	20.760	20.550	14.750	23.690	15.420	19.190	15.860	22.720	0.000	5.750
Flatiron 1&2	Min gwh	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	0.000	5.580
Flatiron 1&2	Max gwh	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	12.050	0.000	5.580
Load following	Min gwh	51.690	44.220	48.220	46.580	33.870	39.330	35.080	46.260	40.610	53.550	1.420	24.530
Load following	Max gwh	51.690	44.220	48.220	46.580	33.870	39.330	35.080	46.260	40.610	53.550	1.420	24.530
Total project	Min gwh	53.695	45.994	50.150	48.739	38.504	51.104	47.315	56.492	50.444	62.072	4.038	26.445
Total project	Max gwh	53.695	45.994	50.150	48.739	38.504	51.104	47.315	56.492	50.444	62.072	4.038	26.445

GENERATION CAPACITY AND DURATION

Project Generation		2009	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Base Generation:															
Green Mtn	mw		2.7	2.6	2.6	2.3	1.4	11.1	11.4	11.1	11.9	8.8	3.6	2.6	
Flatiron 3	mw														
Big Thompson	mw					0.7	4.9	5.3	5.1	2.7	1.7	2.6			
Total base load	mw		2.7	2.6	2.6	3.0	6.3	16.4	16.5	13.8	13.6	11.4	3.6	2.6	
Load Following Generation:															
Marys Lake															
Min Capacity	mw		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	
Duration	hr/d		1.6	4.9	3.0	4.0	11.1	10.2	11.4	5.6	7.9	1.6	16.7	1.6	
Max Capacity	mw		8.1	8.1	8.1	8.1	5.2	2.7	5.7	8.1	8.1	8.1	2.7	8.1	
Duration	hr/d		21.6	18.1	20.0	19.0	11.9	13.8	11.6	17.4	15.1	21.9	7.3	21.6	
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		12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.3	16.7	12.0	
Max Capacity	mw		38.1	31.1	34.6	32.9	14.3	8.4	14.9	30.2	26.7	39.7	7.0	38.1	
Duration	hr/d		12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.7	7.3	12.0	
Pole Hill															
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		2.2	5.6	3.6	3.9	9.7	0.7	8.9	5.1	8.5	1.8	16.4	2.2	
Max Capacity	mw		34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	11.0	34.0	
Duration	hr/d		22.0	18.4	20.4	20.2	14.4	23.3	15.1	18.9	15.5	22.3	7.6	22.0	
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		11.6	12.0	12.0	12.0	12.0	10.4	12.0	12.0	12.0	11.5	16.6	11.7	
Max Capacity	mw		77.6	62.0	69.1	68.2	46.8	83.2	49.5	63.0	51.0	78.8	13.0	77.2	

Duration	hr/d	11.7	12.0	12.0	12.0	12.0	10.4	12.0	12.0	12.0	11.5	7.4	11.8
Total Load Following													
Min Capacity	mw	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
Max Capacity	mw	157.8	135.2	145.8	143.2	100.3	128.3	104.1	135.3	119.8	160.6	33.7	157.4
Total Project Capacity													
Min Capacity	mw	2.7	2.6	2.6	3.0	6.3	16.4	16.5	13.8	13.6	12.5	3.6	2.6
Max Capacity	mw	160.5	137.8	148.4	146.2	106.6	144.7	120.6	149.1	133.4	172.0	37.3	160.0