



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
United States Bureau of Reclamation
Eastern Colorado Area Office
Loveland, Colorado

CBT December 2022 Most Probable REV1: 01-DEC-2

HYDROLOGY OPERATIONS

Dillon Reservoir

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Dillon Inflow	kaf	4.4	4.0	3.3	3.7	6.5	36.5	67.2	26.5	12.0	7.5	6.6	5.7	183.9
DL to GM Gain	kaf	3.6	3.4	2.9	3.7	7.4	26.3	44.8	20.4	9.8	6.5	6.2	5.1	140.1

Green Mountain Reservoir

Init Cont: 87.00 kaf
Elev: 7912.6 ft
Maximum Cont: 154.60 kaf
Elev: 7950.4 ft
Minimum Cont: 8.00 kaf
Elev: 7804.7 ft

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Depletion	kaf	-0.1	0.0	-0.3	-0.6	2.2	31.5	46.0	13.1	6.2	1.6	0.5	0.2	100.3
Depleted Inflow	kaf	8.1	7.4	6.5	8.0	11.7	32.5	68.9	35.3	15.9	12.4	12.4	10.7	229.8
Turbine Release	kaf	12.1	12.1	11.0	12.2	11.5	11.1	14.3	27.1	29.9	43.0	30.2	17.0	231.5
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	cfs	197	197	198	198	194	181	241	441	486	723	491	286	
Total River Release	kaf	12.1	12.1	11.0	12.2	11.5	11.1	14.3	27.1	29.9	43.0	30.2	17.0	231.5
Evaporation	kaf	0.0	0.0	0.0	0.1	0.2	0.3	0.6	0.7	0.5	0.4	0.2	0.1	3.1
End-Month Targets	kaf	69.0	69.0	69.0	69.0	70.0	91.0	145.0	152.5	138.0	107.0	89.0	82.6	
End-Month Contents	kaf	83.4	78.7	74.2	70.0	70.0	91.0	145.0	152.5	138.0	107.0	89.0	82.6	
End-Month Elevation	ft	7909.73	7906.21	7902.73	7899.31	7899.33	7915.09	7945.85	7949.46	7942.38	7925.37	7913.71	7909.13	

Willow Creek Reservoir

Init Cont: 7.00 kaf
Elev: 8118.1 ft
Maximum Cont: 10.20 kaf
Elev: 8128.8 ft
Minimum Cont: 7.20 kaf
Elev: 8116.9 ft

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Native Inflow	kaf	1.0	0.9	0.8	1.1	3.7	18.5	15.0	3.5	1.7	1.3	1.3	1.1	49.9
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	0.4	0.4	0.4	0.4	4.8
Pumped to Granby	kaf	0.0	0.0	0.0	0.6	3.2	17.8	14.6	3.0	1.2	0.8	0.8	0.7	42.7
Evaporation	kaf	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.7
End-Month Contents	kaf	7.2	7.8	8.2	8.2	8.2	8.4	8.2	8.2	8.2	8.2	8.2	8.2	
End-Month Elevation	ft	8120.62	8122.72	8124.40	8124.40	8124.40	8125.06	8124.40	8124.40	8124.40	8124.40	8124.40	8124.40	



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Granby Reservoir														
Init Cont:		485.00 kaf		Maximum Cont:		539.80 kaf		Minimum Cont:		76.50 kaf				
Elev:		8272.3 ft		Elev:		8280.0 ft		Elev:		8186.9 ft				
		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Native Inflow	kaf	1.7	1.6	1.4	1.6	4.0	21.0	35.5	13.0	5.3	3.1	2.8	2.3	93.3
Release from Shadow Mtn	kaf	2.8	1.2	1.1	1.2	1.2	4.7	29.7	6.3	2.5	2.1	2.2	2.7	57.7
Pump from Windy Gap	kaf	0.0	0.0	0.0	0.0	1.0	17.0	10.0	0.0	0.0	0.0	0.0	0.0	28.0
Pump from Willow Creek	kaf	0.0	0.0	0.0	0.6	3.2	17.8	14.6	3.0	1.2	0.8	0.8	0.7	42.7
Total Inflow	kaf	4.5	2.8	2.5	3.4	9.4	60.5	89.8	22.3	8.9	6.0	5.8	5.6	221.5
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	1.1	1.2	1.2	4.6	4.5	4.6	2.5	1.2	1.2	1.2	25.7
Pumped to Shadow Mtn	kaf	4.1	32.3	28.7	26.8	17.2	3.4	0.0	12.6	27.5	30.4	12.7	20.2	215.9
Evaporation	kaf	0.0	0.0	0.0	0.9	1.4	2.3	3.1	2.9	2.3	2.0	1.6	0.7	17.2
Seepage loss	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	3.6
End-Month Contents	kaf	483.9	452.9	425.3	399.6	388.9	438.8	520.8	522.7	499.1	471.1	461.1	444.5	
End-Month Elevation	ft	8272.12	8267.58	8263.38	8259.34	8257.62	8265.45	8277.37	8277.63	8274.30	8270.27	8268.80	8266.31	
Shadow Mountain Reservoir														
Init Cont:		17.00 kaf		Maximum Cont:		18.40 kaf		Minimum Cont:		16.60 kaf				
Elev:		8366.5 ft		Elev:		8367.0 ft		Elev:		8366.0 ft				
		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Native Inflow	kaf	2.3	2.1	1.8	2.1	5.3	27.3	47.0	18.6	7.0	4.2	3.8	3.0	124.5
Pumped from Granby	kaf	4.1	32.3	28.7	26.8	17.2	3.4	0.0	12.6	27.5	30.4	12.7	20.2	215.9
Total Inflow	kaf	6.4	34.4	30.5	28.9	22.5	30.7	47.0	31.2	34.5	34.6	16.4	23.2	340.3
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	2.8	1.2	1.1	1.2	1.2	4.7	29.7	6.3	2.5	2.1	2.2	2.7	57.7
Adams Tunnel Flow	kaf	3.5	33.2	29.4	27.4	20.9	25.4	16.5	24.1	31.5	32.0	13.9	20.4	278.2
Evaporation	kaf	0.0	0.0	0.0	0.2	0.3	0.5	0.6	0.5	0.4	0.4	0.3	0.1	3.3
End-Month Contents	kaf	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	16.9	
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														
		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Tunnel Capacity	kaf	3.5	33.2	30.5	31.1	20.9	27.0	16.6	24.1	31.5	32.0	13.9	20.4	284.7
Actual Diversion	kaf	3.5	33.2	29.4	27.4	20.9	25.4	16.5	24.1	31.5	32.0	13.9	20.4	278.2
% Maximum Delivery	%	100	100	96	88	100	94	99	100	100	100	100	100	



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
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CBT December 2022 Most Probable REV1: 01-DEC-2

Lake Estes

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Big Thompson Inflow	kaf	1.0	0.6	0.4	0.6	2.0	11.0	28.8	16.1	7.5	4.1	2.7	1.9	76.7
Actual River Release	kaf	1.0	0.6	0.4	0.6	1.9	9.4	12.3	8.1	6.8	3.7	2.7	1.5	49.0
Max Diversion Available	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
Priority Water Diverted	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
Skim Water Diverted	kaf	0.0	0.0	0.0	0.0	0.1	1.6	16.4	8.0	0.7	0.4	0.0	0.4	27.6
Irrigation Demand	kaf	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.1	0.1	1.6
Irrigation Delivery	kaf	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.1	0.1	1.6
Total River Release	kaf	1.0	0.6	0.4	0.6	1.9	9.4	12.3	8.1	6.8	3.7	2.7	1.5	49.0

Olympus Tunnel

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Tunnel Capacity	kaf	12.5	33.2	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	33.8	32.7	376.0
Actual Delivery	kaf	3.5	33.1	29.4	27.4	20.9	26.9	32.7	31.7	31.9	32.2	13.7	20.7	304.1
% Maximum Delivery	%	28	100	96	81	64	80	100	94	94	98	41	63	
Inflow to Flatiron	kaf	6.4	33.1	29.4	27.4	20.9	26.9	32.7	31.7	31.9	32.2	13.7	20.7	307.0

Carter Lake

Carter Lake		Init Cont:			Maximum Cont:			Minimum Cont:						
		Elev:			Elev:			Elev:						
			56.00	kaf		112.20	kaf		6.00	kaf				
			5704.0	ft		5759.0	ft		5626.8	ft				
		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Pumped from Flatiron	kaf	3.0	22.6	13.4	0.0	0.0	10.2	2.2	15.5	21.6	20.9	0.9	2.7	113.0
Flatiron Bifurcation	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
Carter to Flatiron	kaf	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Evaporation Loss	kaf	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.4	0.3	0.3	0.2	0.1	2.4
Seepage Loss	kaf	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.3
End-Month Contents	kaf	52.6	72.4	83.2	79.8	75.0	78.4	71.4	70.2	69.5	71.0	61.8	60.9	
End-Month Elevation	ft	5700.50	5721.67	5732.37	5729.05	5724.24	5727.65	5720.63	5719.47	5718.71	5720.26	5710.65	5709.63	
Priority Water Diverted to Carter	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 & Metered Demand	kaf	2.1	1.9	1.9	2.5	4.1	5.7	7.3	15.0	20.9	18.2	9.3	2.7	91.6
Windy Gap demand	kaf	0.9	0.7	0.5	0.6	0.4	0.6	1.3	1.1	0.9	0.8	0.4	0.7	8.9
Total Demand	kaf	3.0	2.7	2.4	3.1	4.5	6.3	8.6	16.1	21.9	19.0	9.7	3.4	100.7
Total Delivery	kaf	3.0	2.7	2.4	3.1	4.5	6.3	8.6	16.1	21.9	19.0	9.7	3.4	100.7
% 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



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
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Loveland, Colorado

CBT December 2022 Most Probable REV1: 01-DEC-2

Hansen Canal 930

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Flow	kaf	57.2	57.2	51.6	57.2	55.3	57.2	55.3	57.2	57.2	55.3	57.2	55.3	673.2
Actual Flow	kaf	3.4	10.6	16.0	27.4	20.9	16.7	30.5	16.2	10.3	11.3	12.8	17.9	194.0

Dille Tunnel

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Big Thompson River Below Lake Estes	kaf	1.0	0.6	0.4	0.6	1.9	9.4	12.3	8.1	6.8	3.7	2.7	1.5	49.0
North Fork Big Thompson River at Drake	kaf	0.4	0.3	0.2	0.2	0.4	2.4	4.5	2.3	1.3	0.8	0.6	0.4	13.8
Dille Skim Water Diverted	kaf	0.0	0.0	0.0	0.0	0.3	9.3	7.0	7.7	5.6	2.1	0.8	0.0	32.8
Dille Priority Water Diverted	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
water available	kaf	1.4	1.0	0.6	0.9	2.3	11.8	16.8	10.4	8.1	4.5	3.3	1.9	63.0
water diverted	kaf	0.0	0.0	0.0	0.0	0.3	9.3	7.0	7.7	5.6	2.1	0.8	0.0	32.8
% Diverted	%	0	0	0	0	6	171	129	141	104	39	16	0	
Big T @ Canyon Mouth	kaf	1.4	1.0	0.6	0.9	1.9	2.5	9.8	2.7	2.5	2.4	2.5	1.9	30.1

Trifurcation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Release from Flatiron	kaf	3.4	10.6	16.0	27.4	20.9	16.7	30.5	16.2	10.3	11.3	12.8	17.9	194.0
Release to 550 Canal	kaf	3.3	10.5	16.0	27.3	20.6	14.5	13.6	6.6	4.9	4.0	9.5	17.6	148.4
Dille Tunnel	kaf	0.0	0.0	0.0	0.0	0.3	9.3	7.0	7.7	5.6	2.1	0.8	0.0	32.8
Total release to river	kaf	0.0	0.0	0.0	0.0	0.1	0.3	0.2	1.2	4.2	6.1	2.7	0.0	14.8
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.1	0.3	0.2	1.2	4.1	6.0	2.7	0.0	14.6
Windy Gap demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1
Total requirement	kaf	0.0	0.0	0.0	0.0	0.1	0.3	0.2	1.2	4.2	6.1	2.7	0.0	14.8
Total delivery	kaf	0.0	0.0	0.0	0.0	0.1	0.3	0.2	1.2	4.2	6.1	2.7	0.0	14.8
% 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



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
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CBT December 2022 Most Probable REV1: 01-DEC-2

Hansen Canal 550

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Inflow from Flatiron	kaf	3.3	10.5	16.0	27.3	20.6	14.5	13.6	6.6	4.9	4.0	9.5	17.6	148.4
Maximum flow	kaf	33.8	33.8	26.6	29.4	28.5	24.6	28.5	29.4	29.4	28.5	29.4	28.5	350.4
Irrigation demand	kaf	0.1	0.1	0.0	0.0	0.2	0.3	0.2	0.4	0.5	0.7	0.6	0.0	3.1
Irrigation delivery	kaf	0.1	0.1	0.0	0.0	0.2	0.3	0.2	0.4	0.5	0.7	0.6	0.0	3.1
Rels to Horsetooth	kaf	3.3	10.5	16.0	27.3	20.6	14.5	13.6	6.6	4.9	4.0	9.5	17.6	148.4

Horsetooth Reservoir

Init Cont: 78.00 kaf
Elev: 5384.6 ft
Maximum Cont: 157.00 kaf
Elev: 5430.0 ft
Minimum Cont: 13.00 kaf
Elev: 5316.8 ft

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Inflow	kaf	3.3	10.5	16.0	27.3	20.6	14.5	13.6	6.6	4.9	4.0	9.5	17.6	148.4
Total irrigation delivery	kaf	2.6	2.4	2.1	2.3	2.9	5.6	7.2	17.1	25.6	16.1	10.8	2.4	97.1
Evaporation loss	kaf	0.0	0.0	0.0	0.2	0.4	0.7	0.9	0.8	0.6	0.5	0.4	0.2	4.7
Seepage loss	kaf	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.3
End-Month Content	kaf	79.0	86.9	100.6	125.3	142.4	150.4	155.8	144.3	122.9	110.1	108.3	123.1	
End-Month Elevation	ft	5384.98	5390.39	5399.19	5413.61	5422.78	5426.88	5429.52	5423.77	5412.30	5404.97	5403.88	5412.44	
Priority water diverted to Horsetooth	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 demand	kaf	0.0	0.0	0.0	0.0	0.1	1.5	2.0	11.0	19.6	10.7	7.9	0.0	52.8
Metered Demand	kaf	2.2	2.0	1.8	1.9	2.1	3.5	4.3	5.2	4.7	4.4	2.3	2.0	36.4
Windy Gap demand	kaf	0.4	0.4	0.3	0.4	0.6	0.6	0.9	0.9	1.3	1.1	0.6	0.4	7.9
Total demand	kaf	2.6	2.4	2.1	2.3	2.9	5.6	7.2	17.1	25.6	16.1	10.8	2.4	97.1
% 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

CBT Project Summary

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Total CBT Delivery	kaf	4.4	4.1	3.8	4.5	6.6	11.3	14.3	33.1	50.2	40.2	23.0	4.8	200.3



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
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CBT December 2022 Most Probable REV1: 01-DEC-2

Windy Gap

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Pumping	kaf	0.0	0.0	0.0	0.0	1.0	17.0	10.0	0.0	0.0	0.0	0.0	0.0	28.0
Losses	kaf	0.0	0.0	0.0	0.0	0.1	1.7	1.0	0.0	0.0	0.0	0.0	0.0	2.8
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
Total Delivery	kaf	1.3	1.1	0.8	1.0	1.0	1.2	2.3	2.0	2.2	2.0	1.0	1.1	17.0
Account Balance	kaf	-1.3	-2.4	-3.3	-4.3	-4.4	9.7	16.5	14.4	12.2	10.2	9.2	8.1	



CBT December 2022 Most Probable REV1: 01-DEC-2

PUMPING AND GENERATION OPERATIONS

Green Mountain Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Generation	gwh	18.600	18.600	16.800	18.600	18.000	18.600	18.000	18.600	18.600	18.000	18.600	18.000	219.000
Generation	gwh	2.100	2.100	1.900	2.000	1.900	1.900	2.800	5.700	6.200	8.500	5.600	3.000	43.700
% Maximum Generation	%	12	11	11	11	11	10	16	31	33	47	30	17	
Average	kwh/af	177	173	170	167	165	172	195	211	209	198	185	177	

Willow Creek Pumping

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Pumping	kaf	24.6	24.6	22.2	24.6	23.8	24.6	23.8	24.6	24.6	23.8	24.6	23.8	289.6
Actual Pumping	kaf	0.0	0.0	0.0	0.6	3.2	17.8	14.6	3.0	1.2	0.8	0.8	0.7	42.7
Pump Energy	gwh	0.000	0.000	0.000	0.100	0.700	3.800	3.100	0.600	0.300	0.200	0.200	0.100	9.100
% Maximum Pumping	%	0	0	0	2	13	72	61	12	5	3	3	3	174
Average	kwh/af	0	0	213	213	213	213	213	213	213	213	213	213	

Lake Granby Pumping

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Pumping	kaf	36.9	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	35.7	36.9	35.7	434.4
Actual Pumping	kaf	4.1	32.3	28.7	26.8	17.2	3.4	0.0	12.6	27.5	30.4	12.7	20.2	215.9
Pump Energy	gwh	0.600	4.600	4.200	3.900	2.500	0.500	0.000	1.800	3.900	4.300	1.800	2.900	31.000
% Maximum Pumping	%	11	87	86	73	48	9	0	34	75	85	34	57	
Average	kwh/af	142	143	145	147	148	147	0	140	141	143	143	144	



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
United States Bureau of Reclamation
Eastern Colorado Area Office
Loveland, Colorado

CBT December 2022 Most Probable REV1: 01-DEC-2

Marys Lake Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Adams Tunnel Flow	kaf	3.5	33.2	29.4	27.4	20.9	25.4	16.5	24.1	31.5	32.0	13.9	20.4	278.2
Maximum Generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.500	6.400	6.200	6.400	6.200	28.700
Generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.900	5.900	6.000	2.300	3.600	20.700
% Maximum Generation	%	0	0	0	0	0	0	0	12	19	19	16	18	
Average	kwh/af	0	0	0	0	0	0	0	119	187	188	163	177	

Lake Estes Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Adams Tunnel Flow	kaf	3.5	33.2	29.4	27.4	20.9	25.4	16.5	24.1	31.5	32.0	13.9	20.4	278.2
Maximum Generation	gwh	5.300	16.000	14.500	16.000	15.500	16.000	15.500	16.000	16.000	15.500	16.000	15.500	177.800
Generation	gwh	1.700	15.700	13.900	13.000	9.800	11.900	7.600	11.100	14.700	15.100	6.300	9.300	130.100
% Maximum Generation	%	31	98	96	81	63	74	49	69	92	97	39	60	
Average	kwh/af	470	474	474	474	471	468	460	458	468	472	453	459	

Pole Hill Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Olympus Tunnel Flow	kaf	12.5	33.2	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	33.8	32.7	376.0
Maximum Generation	gwh	0.000	21.600	23.300	25.800	25.000	25.800	25.000	25.800	25.800	25.000	25.800	25.000	273.900
Generation	gwh	0.000	21.600	22.500	20.800	15.500	19.800	25.000	24.200	24.300	24.600	9.400	15.200	222.900
% Maximum Generation	%	0	100	96	81	62	77	100	94	94	98	37	61	
Average	kwh/af	0	651	735	617	472	586	763	715	718	751	278	463	



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
United States Bureau of Reclamation
Eastern Colorado Area Office
Loveland, Colorado

CBT December 2022 Most Probable REV1: 01-DEC-2

Flatiron Units 1 and 2 Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Inflow to Flatiron	kaf	6.4	33.1	29.4	27.4	20.9	26.9	32.7	31.7	31.9	32.2	13.7	20.7	307.0
Maximum Generation	gwh	13.500	32.200	29.100	32.200	31.200	32.200	31.200	32.200	32.200	31.200	32.200	31.200	360.600
Generation	gwh	3.100	31.200	27.400	23.900	17.500	24.600	31.200	29.300	29.500	30.300	10.600	17.200	275.800
% Maximum Generation	%	23	97	94	74	56	76	100	91	92	97	33	55	
Average	kwh/af	483	942	933	872	839	915	953	924	927	942	769	834	

Flatiron Unit 3 Pump/Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Maximum Pumping	kaf	3.9	22.6	13.4	0.0	0.0	10.6	2.2	15.5	21.7	20.9	0.9	2.7	114.4
Pump from Flatiron	kaf	3.0	22.6	13.4	0.0	0.0	10.2	2.2	15.5	21.6	20.9	0.9	2.7	113.0
Pump Energy	gwh	0.900	6.800	4.300	0.000	0.000	3.300	0.700	4.800	6.700	6.500	0.300	0.800	35.100
% Maximum Pumping	%	77	100	100	0	0	97	100	100	100	100	100	100	
Average	kwh/af	289	303	322	0	0	318	323	310	311	312	313	299	
Maximum Turbine release	kaf	22.7	23.5	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.1
Carter to Flatiron	kaf	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
Maximum Generation	gwh	4.300	4.600	3.300	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.200
Actual Generation	gwh	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
% Maximum Generation	%	12	0	0	0	0	0	0	0	0	0	0	0	
Average	kwh/af	188	0	0	0	0	0	0	0	0	0	0	0	

Big Thompson Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Total release	kaf	0.0	0.0	0.0	0.0	0.5	11.2	23.7	16.8	10.4	8.7	3.6	0.4	75.3
Turbine release	kaf	0.0	0.0	0.0	0.0	0.5	11.2	23.7	16.8	10.4	8.7	3.6	0.4	75.3
Wasteway release	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	3.800	3.800	3.500	3.800	3.700	3.800	3.700	3.800	3.800	3.700	3.800	3.700	44.900
Generation	gwh	0.000	0.000	0.000	0.000	0.000	1.600	3.700	2.600	1.500	1.100	0.100	0.000	10.600
% Maximum Generation	%	0	0	0	0	0	41	100	68	38	31	3	0	
Average	kwh/af	0	0	0	0	0	141	156	154	140	131	34	0	



COLORADO - BIG THOMPSON MONTHLY OPERATIONS
United States Bureau of Reclamation
Eastern Colorado Area Office
Loveland, Colorado

CBT December 2022 Most Probable REV1: 01-DEC-2

Project Generation

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Total Generation	gwh	7.400	70.600	65.700	59.800	44.700	59.800	70.200	75.800	82.100	85.700	34.200	48.300	704.300
Total Max Generation	gwh	45.600	97.000	90.500	96.500	93.400	96.500	93.400	100.000	102.900	99.600	102.900	99.600	1117.900

Project Pump Energy

		Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Total
Granby	gwh	0.600	4.600	4.200	3.900	2.500	0.500	0.000	1.800	3.900	4.300	1.800	2.900	31.000
Willow Creek	gwh	0.000	0.000	0.000	0.100	0.700	3.800	3.100	0.600	0.300	0.200	0.200	0.100	9.100
Flatiron Unit 3	gwh	0.900	6.800	4.300	0.000	0.000	3.300	0.700	4.800	6.700	6.500	0.300	0.800	35.100
Total Pump Energy	gwh	1.400	11.500	8.500	4.100	3.200	7.500	3.800	7.200	10.900	11.000	2.300	3.900	75.300