



CBT December 2016 Most Probable: 01-DEC-2016

**HYDROLOGY OPERATIONS**

**Dillon Reservoir**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Dillon Inflow	kaf	5.6	5.0	4.1	4.4	8.0	33.6	60.0	26.6	13.7	8.6	7.7	6.3	183.6
DL to GM Gain	kaf	4.3	3.7	3.1	4.2	8.2	23.4	40.6	20.5	12.5	7.0	5.6	4.5	137.6

**Green Mountain Reservoir**

<b>Init Cont:</b>	76.00 kaf	<b>Maximum Cont:</b>	154.60 kaf	<b>Minimum Cont:</b>	8.00 kaf
<b>Elev:</b>	7904.0 ft	<b>Elev:</b>	7950.4 ft	<b>Elev:</b>	7804.7 ft

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Undepleted Inflow	kaf	9.9	8.7	7.2	8.6	16.2	57.1	101.8	50.0	26.9	15.7	13.3	10.8	326.2
Depletion	kaf	0.0	0.0	-0.2	-0.4	3.1	27.6	53.8	-6.5	2.4	1.7	1.2	0.2	82.9
Depleted Inflow	kaf	9.9	8.7	7.4	9.0	13.2	29.4	47.9	56.5	24.5	14.0	12.1	10.6	243.2
Turbine Release	kaf	12.1	11.4	10.3	11.4	11.1	11.6	5.5	29.4	43.0	41.3	42.6	13.5	243.2
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	185	185	185	187	188	93	479	699	694	693	227	
Min Release	cfs	60	60	60	60	60	60	60	60	60	60	60	60	
Total River Release	kaf	12.1	11.4	10.3	11.4	11.1	11.6	5.5	29.4	43.0	41.3	42.6	13.5	243.2
Evaporation	kaf	0.0	0.0	0.0	0.1	0.2	0.3	0.5	0.7	0.5	0.4	0.2	0.1	3.0
End-Month Targets	kaf	73.6	66.0	66.0	66.0	86.2	86.2	153.0	153.0	75.0	75.0	75.0	73.0	
End-Month Contents	kaf	73.7	71.1	68.2	65.8	67.7	85.2	127.0	153.4	134.4	106.8	76.0	73.0	
End-Month Elevation	ft	7902.34	7900.22	7897.81	7895.73	7897.36	7911.02	7936.68	7949.89	7940.56	7925.23	7904.15	7901.77	

**Willow Creek Reservoir**

<b>Init Cont:</b>	7.00 kaf	<b>Maximum Cont:</b>	10.20 kaf	<b>Minimum Cont:</b>	7.20 kaf
<b>Elev:</b>	8117.6 ft	<b>Elev:</b>	8128.8 ft	<b>Elev:</b>	8116.9 ft

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Native Inflow	kaf	0.9	0.8	0.7	1.0	3.5	17.6	13.8	4.1	1.8	1.3	1.2	1.1	47.8
Minimum 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
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	0.0	3.1	16.7	13.6	3.5	1.3	0.8	0.7	2.3	42.0
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 Targets	kaf	7.6	8.0	8.6	8.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0	7.3	
End-Month Contents	kaf	7.8	8.2	8.5	9.1	9.0	9.3	9.0	9.0	9.0	9.0	9.0	7.3	
End-Month Elevation	ft	8119.69	8121.42	8122.65	8124.85	8124.50	8125.75	8124.50	8124.50	8124.50	8124.50	8124.50	8117.37	

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



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<b>Granby Reservoir</b>														
	<b>Init Cont:</b>	477.00 kaf				<b>Maximum Cont:</b>	539.80 kaf				<b>Minimum Cont:</b>	76.50 kaf		
	<b>Elev:</b>	8271.1 ft				<b>Elev:</b>	8280.0 ft				<b>Elev:</b>	8186.9 ft		
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Native Inflow	kaf	1.9	1.7	1.4	1.9	4.4	19.0	38.1	13.3	4.1	3.2	2.8	2.3	94.1
Release from Shadow Mtn	kaf	2.8	1.2	1.1	1.2	1.2	9.9	28.2	6.0	2.5	2.1	2.2	2.7	61.1
Pump from Windy Gap	kaf	0.0	0.0	0.0	0.0	2.6	23.8	15.2	0.0	0.0	0.0	0.0	0.0	41.6
Pump from Willow Creek	kaf	0.0	0.0	0.0	0.0	3.1	16.7	13.6	3.5	1.3	0.8	0.7	2.3	42.0
<b>Total Inflow</b>	<b>kaf</b>	<b>4.6</b>	<b>2.9</b>	<b>2.5</b>	<b>3.1</b>	<b>11.3</b>	<b>69.4</b>	<b>95.1</b>	<b>22.8</b>	<b>7.8</b>	<b>6.0</b>	<b>5.6</b>	<b>7.3</b>	<b>238.4</b>
Minimum River Release	kaf	1.2	1.2	1.1	1.2	1.2	4.6	4.5	4.6	4.6	4.5	1.2	1.2	31.1
5412.5 Release	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	3.2	0.0	0.0	5.4
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
<b>Total River Release</b>	<b>kaf</b>	<b>1.2</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.2</b>	<b>4.6</b>	<b>4.5</b>	<b>4.6</b>	<b>6.8</b>	<b>7.7</b>	<b>1.2</b>	<b>1.2</b>	<b>36.5</b>
Pumped to Shadow Mtn	kaf	25.2	26.1	24.2	27.9	16.6	10.4	0.0	6.6	12.9	18.9	23.5	1.2	193.5
Evaporation	kaf	0.0	0.0	0.0	0.8	1.4	2.2	3.0	2.9	2.3	2.0	1.6	0.7	16.9
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	455.1	430.4	407.3	380.2	372.0	423.9	511.3	519.7	505.3	482.4	461.4	465.3	
End-Month Elevation	ft	8267.91	8264.17	8260.57	8256.21	8254.87	8263.17	8276.02	8277.21	8275.18	8271.90	8268.84	8269.42	

<b>Shadow Mountain Reservoir</b>														
	<b>Init Cont:</b>	17.00 kaf				<b>Maximum Cont:</b>	18.40 kaf				<b>Minimum Cont:</b>	16.60 kaf		
	<b>Elev:</b>	8366.7 ft				<b>Elev:</b>	8367.0 ft				<b>Elev:</b>	8366.0 ft		
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Native Inflow	kaf	2.5	2.2	1.9	2.5	5.8	25.2	50.0	15.4	5.4	4.2	3.7	3.0	121.8
Pumped from Granby	kaf	25.2	26.1	24.2	27.9	16.6	10.4	0.0	6.6	12.9	18.9	23.5	1.2	193.5
<b>Total Inflow</b>	<b>kaf</b>	<b>27.7</b>	<b>28.4</b>	<b>26.1</b>	<b>30.3</b>	<b>22.4</b>	<b>35.6</b>	<b>50.0</b>	<b>22.0</b>	<b>18.3</b>	<b>23.2</b>	<b>27.2</b>	<b>4.2</b>	<b>315.4</b>
Minimum River Release	kaf	2.8	1.2	1.1	1.2	1.2	1.2	3.0	3.1	2.5	2.1	2.2	2.7	24.3
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
<b>Total River Release</b>	<b>kaf</b>	<b>2.8</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.2</b>	<b>9.9</b>	<b>28.2</b>	<b>6.0</b>	<b>2.5</b>	<b>2.1</b>	<b>2.2</b>	<b>2.7</b>	<b>61.1</b>
Adams Tunnel Flow	kaf	25.1	27.1	25.0	28.9	20.8	25.0	21.0	15.2	15.2	20.5	24.6	1.3	249.7
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	

<b>Adams Tunnel</b>														
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Maximum Tunnel Capacity	kaf	25.1	33.8	30.5	33.8	32.7	33.8	32.7	15.2	15.2	26.1	33.8	32.7	345.4
Actual Diversion	kaf	25.1	27.1	25.0	28.9	20.8	25.0	21.0	15.2	15.2	20.5	24.6	1.3	249.7
% Maximum Delivery	%	100	80	82	85	63	74	64	100	100	79	73	4	



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Lake Estes														
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Big Thompson Inflow	kaf	0.9	0.6	0.4	0.5	1.3	6.4	21.2	18.0	8.1	4.2	2.7	1.8	66.1
Minimum River Release	kaf	1.5	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	3.7	3.1	1.5	45.3
Actual River Release	kaf	0.9	0.6	0.4	0.5	1.3	5.5	12.0	7.7	23.2	24.7	27.3	2.0	106.1
Max Diversion Available	kaf	0.0	0.0	0.0	0.0	0.0	0.8	13.8	10.3	1.2	0.5	0.0	0.3	26.9
Priority Water Diverted	kaf	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	6.6
Skim Water Diverted	kaf	0.0	0.0	0.0	0.0	0.0	0.8	4.9	10.3	0.0	0.0	0.0	0.0	16.0
% Maximum Diversion	%	0	0	0	0	0	100	84	100	0	0	0	16	
Irrigation Demand	kaf	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.6
Irrigation Delivery	kaf	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.6
Total River Release	kaf	0.9	0.6	0.4	0.5	1.3	5.5	12.0	7.7	23.2	24.7	27.3	2.0	106.1

Olympus Tunnel														
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Maximum Tunnel Capacity	kaf	33.8	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	33.8	32.7	397.9
Actual Delivery	kaf	25.0	27.0	24.9	28.8	20.6	25.6	30.1	25.3	0.0	0.0	0.0	1.0	208.3
% Maximum Delivery	%	74	80	82	85	63	76	92	75	0	0	0	3	
Inflow to Flatiron	kaf	25.0	27.0	24.9	28.8	20.6	25.6	30.1	26.9	0.0	0.0	0.0	1.0	209.9

Carter Lake	Init Cont:		44.00 kaf		Maximum Cont:		112.20 kaf		Minimum Cont:		6.00 kaf		Total	
	Elev:		5690.8 ft		Elev:		5759.0 ft		Elev:		5626.8 ft			
		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Pumped from Flatiron	kaf	18.0	21.0	17.1	17.2	12.1	7.5	9.3	12.7	0.0	0.0	0.0	0.0	114.9
Carter to Flatiron	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5
Evaporation Loss	kaf	0.0	0.0	0.0	0.1	0.3	0.4	0.5	0.5	0.3	0.3	0.2	0.1	2.7
Seepage Loss	kaf	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	1.8
End-Month Targets	kaf	112.0	112.0	112.0	112.0	112.0	112.0	112.0	112.0	20.0	20.0	20.0	20.0	
End-Month Contents	kaf	59.5	77.6	91.6	105.2	112.0	112.0	112.0	104.1	80.5	63.4	54.5	51.6	
End-Month Elevation	ft	5708.12	5726.85	5739.75	5752.31	5758.65	5758.59	5758.53	5751.39	5729.73	5712.35	5702.59	5699.28	
Priority Water Diverted to Carter	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.6
Irrigation Demand	kaf	2.4	2.3	2.6	2.7	4.4	6.1	7.3	17.2	21.4	15.5	8.0	2.2	92.1
Metered 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
Windy Gap demand	kaf	0.6	0.5	0.4	0.5	0.4	0.8	1.4	1.3	1.6	1.2	0.6	0.5	9.8
Total Demand	kaf	2.9	2.8	3.0	3.2	4.8	6.9	8.6	18.5	23.0	16.7	8.6	2.7	101.7
Total Delivery	kaf	2.9	2.8	3.0	3.2	4.8	6.9	8.6	18.5	23.0	16.7	8.6	2.7	101.7
% 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



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**Hansen Canal 930**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Minimum Flow	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 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	7.0	6.0	7.8	11.6	8.6	18.2	20.8	14.1	0.0	0.0	0.0	1.0	95.1

**Dille Tunnel**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Big Thompson River Below Lake Estes	kaf	0.9	0.6	0.4	0.5	1.3	5.5	12.0	7.7	23.2	24.7	27.3	2.0	106.1
North Fork Big Thompson River at Drake	kaf	0.7	0.6	0.4	0.4	0.4	1.3	3.4	2.1	1.3	0.8	0.6	0.4	12.4
Dille Skim Water Diverted	kaf	0.0	0.0	0.0	0.0	0.0	4.4	10.2	6.9	6.9	1.3	0.0	0.0	29.7
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	1.6	1.2	0.8	1.0	1.7	6.8	15.4	9.8	24.4	25.5	27.9	2.4	118.5
water diverted	kaf	0.0	0.0	0.0	0.0	0.0	4.4	12.6	6.9	21.9	21.7	24.6	0.3	92.4
% Diverted	%	0	0	0	0	0	80	231	127	406	402	455	6	
Big T @ Canyon Mouth	kaf	1.6	1.2	0.8	1.0	1.7	2.5	2.9	3.0	2.5	3.7	3.3	2.1	26.3

**Trifurcation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Release from Flatiron	kaf	7.0	6.0	7.8	11.6	8.6	18.2	20.8	14.1	0.0	0.0	0.0	1.0	95.1
Release to 550 Canal	kaf	6.6	5.7	7.5	11.3	8.2	16.7	17.7	1.5	9.9	12.1	22.1	0.8	120.1
Dille Tunnel	kaf	0.0	0.0	0.0	0.0	0.0	4.4	12.6	6.9	21.9	21.7	24.6	0.3	92.4
Total release to river	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.2	7.4	1.5	0.0	14.3
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.1	7.2	1.5	0.0	14.0
Windy Gap demand	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2
Total requirement	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.2	7.4	1.5	0.0	14.3
Total delivery	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.2	7.4	1.5	0.0	14.3
% Required Delivery	%	100	0	0	0	100	100	100	100	100	100	100	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



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**Hansen Canal 550**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Inflow from Flatiron	kaf	6.6	5.7	7.5	11.3	8.2	16.7	17.7	1.5	9.9	12.1	22.1	0.8	120.1
Maximum flow	kaf	31.8	31.8	28.7	31.8	30.8	31.8	30.8	31.8	31.8	30.8	31.8	30.8	374.5
Irrigation demand	kaf	0.3	0.3	0.3	0.3	0.4	0.6	0.5	1.0	1.0	1.0	1.0	0.5	7.2
Irrigation delivery	kaf	0.3	0.3	0.3	0.3	0.4	0.6	0.5	1.0	1.0	1.0	1.0	0.5	7.2
Minimum flow	kaf	2.8	4.6	4.2	4.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	28.2
Rels to Horsetooth	kaf	6.6	5.7	7.5	11.3	8.2	16.7	17.7	1.5	9.9	12.1	22.1	0.8	120.1

**Horsetooth Reservoir**

<b>Init Cont:</b>	109.00 kaf	<b>Maximum Cont:</b>	157.00 kaf	<b>Minimum Cont:</b>	13.00 kaf
<b>Elev:</b>	5404.4 ft	<b>Elev:</b>	5430.0 ft	<b>Elev:</b>	5316.8 ft

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Inflow	kaf	6.6	5.7	7.5	11.3	8.2	16.7	17.7	1.5	9.9	12.1	22.1	0.8	120.1
Total irrigation delivery	kaf	2.0	2.2	2.0	2.2	3.4	5.8	6.6	27.9	31.7	15.0	11.7	1.9	112.4
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 Targets	kaf	115.0	115.0	121.0	130.0	135.0	145.0	155.0	156.7	115.0	115.0	115.0	110.0	
End-Month Content	kaf	113.6	116.9	122.3	130.9	135.0	145.0	155.0	127.7	105.2	101.6	111.5	110.0	
End-Month Elevation	ft	5407.00	5408.92	5411.95	5416.71	5418.93	5424.15	5429.17	5414.98	5401.98	5399.82	5405.75	5404.91	
Priority water diverted to Horsetooth	kaf	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	5.7
Irrigation demand	kaf	0.0	0.0	0.0	0.0	0.4	0.8	1.1	19.6	23.9	9.6	8.7	0.0	64.1
Metered Demand	kaf	1.6	1.8	1.7	1.8	2.4	4.4	4.7	7.6	6.3	4.1	2.4	1.5	40.3
Windy Gap demand	kaf	0.4	0.4	0.4	0.5	0.6	0.7	0.9	0.7	1.5	1.4	0.6	0.4	8.5
Total demand	kaf	2.0	2.2	2.0	2.2	3.4	5.8	6.6	27.9	31.7	15.0	11.7	1.9	112.4
Total irrigation	kaf	2.0	2.2	2.0	2.2	3.4	5.8	6.6	27.9	31.7	15.0	11.7	1.9	112.4
% 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

**CBT Project Summary**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Total CBT Delivery	kaf	4.4	4.4	4.6	4.9	7.7	11.9	13.6	46.7	56.7	37.3	21.6	4.1	217.9



**CBT December 2016 Most Probable: 01-DEC-2016**

<b>Windy Gap</b>														
		<b>Dec-16</b>	<b>Jan-17</b>	<b>Feb-17</b>	<b>Mar-17</b>	<b>Apr-17</b>	<b>May-17</b>	<b>Jun-17</b>	<b>Jul-17</b>	<b>Aug-17</b>	<b>Sep-17</b>	<b>Oct-17</b>	<b>Nov-17</b>	<b>Total</b>
<b>Pumping</b>	<b>kaf</b>	0.0	0.0	0.0	0.0	2.6	23.8	15.2	0.0	0.0	0.0	0.0	0.0	41.6
<b>Losses</b>	<b>kaf</b>	0.0	0.0	0.0	0.0	0.3	2.4	1.5	0.0	0.0	0.0	0.0	0.0	4.2
<b>Spill</b>	<b>kaf</b>	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
<b>Total Delivery</b>	<b>kaf</b>	1.0	0.9	0.8	1.0	1.0	1.5	2.2	2.0	3.2	2.7	1.2	0.9	18.4
<b>Account Balance</b>	<b>kaf</b>	-1.0	-1.9	-2.6	-3.6	-2.2	17.8	29.2	27.2	24.0	21.3	20.2	19.3	



CBT December 2016 Most Probable: 01-DEC-2016

**PUMPING AND GENERATION OPERATIONS**

**Green Mountain Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	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	1.900	1.700	1.900	1.800	2.000	1.000	6.200	9.000	8.100	7.700	2.300	45.700
% Maximum Generation	%	11	10	10	10	10	11	6	33	48	45	41	13	
Average	kwh/af	169	167	165	163	163	169	189	211	209	197	180	168	

**Willow Creek Pumping**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Maximum Pumping	kaf	0.0	0.0	0.0	0.0	23.8	24.6	23.8	24.6	24.6	23.8	24.6	23.8	193.6
Actual Pumping	kaf	0.0	0.0	0.0	0.0	3.1	16.7	13.6	3.5	1.3	0.8	0.7	2.3	42.0
Pump Energy	gwh	0.000	0.000	0.000	0.000	0.700	3.600	2.900	0.700	0.300	0.200	0.200	0.500	9.100
% Maximum Pumping	%	0	0	0	0	13	68	57	14	5	3	3	10	173
Average	kwh/af	0	0	0	0	213	213	213	213	213	213	213	213	

**Lake Granby Pumping**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	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	25.2	26.1	24.2	27.9	16.6	10.4	0.0	6.6	12.9	18.9	23.5	1.2	193.5
Pump Energy	gwh	3.600	3.800	3.500	4.100	2.500	1.600	0.000	0.900	1.800	2.700	3.400	0.200	28.100
% Maximum Pumping	%	68	71	73	76	46	28	0	18	35	53	64	3	
Average	kwh/af	143	145	146	148	149	149	0	141	141	142	143	143	



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**Marys Lake Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Adams Tunnel Flow	kaf	25.1	27.1	25.0	28.9	20.8	25.0	21.0	15.2	15.2	20.5	24.6	1.3	249.7
Maximum Generation	gwh	4.500	6.400	5.800	6.400	6.200	6.400	6.200	6.400	6.400	6.200	6.400	6.200	73.500
Generation	gwh	4.100	5.000	4.600	5.400	3.200	4.600	3.200	2.600	2.600	3.700	4.500	0.000	43.500
% Maximum Generation	%	16	18	18	19	16	18	15	17	17	18	18	0	
Average	kwh/af	165	184	185	186	156	184	152	169	169	178	182	0	

**Lake Estes Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Adams Tunnel Flow	kaf	25.1	27.1	25.0	28.9	20.8	25.0	21.0	15.2	15.2	20.5	24.6	1.3	249.7
Maximum Generation	gwh	16.000	16.000	14.500	16.000	15.500	16.000	15.500	16.000	16.000	15.500	16.000	15.500	188.500
Generation	gwh	11.700	12.500	11.500	13.400	9.500	11.800	9.700	7.100	7.200	9.400	11.200	0.200	115.200
% Maximum Generation	%	73	78	79	84	61	73	62	45	45	61	70	1	
Average	kwh/af	468	460	459	464	457	470	460	469	472	458	453	127	

**Pole Hill Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Olympus Tunnel Flow	kaf	33.8	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	33.8	32.7	397.9
Maximum Generation	gwh	18.300	25.800	23.300	25.800	25.000	25.800	25.000	25.800	25.800	25.000	25.800	25.000	296.400
Generation	gwh	16.600	20.600	18.700	21.600	12.900	19.000	22.900	18.800	0.000	0.000	0.000	0.000	151.100
% Maximum Generation	%	91	80	80	84	52	74	92	73	0	0	0	0	
Average	kwh/af	491	608	614	639	395	562	698	557	0	0	0	0	





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**Flatiron Units 1 and 2 Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Inflow to Flatiron	kaf	25.0	27.0	24.9	28.8	20.6	25.6	30.1	26.9	0.0	0.0	0.0	1.0	209.9
Maximum Generation	gwh	32.200	32.200	29.100	32.200	31.200	32.200	31.200	32.200	32.200	31.200	32.200	31.200	379.300
Generation	gwh	22.900	23.300	22.100	26.200	17.800	23.000	27.700	21.800	0.000	0.000	0.000	0.400	185.200
% Maximum Generation	%	71	72	76	81	57	71	89	68	0	0	0	1	
Average	kwh/af	918	862	889	910	865	897	921	813	0	0	0	372	

**Flatiron Unit 3 Pump/Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Maximum Pumping	kaf	23.5	21.0	17.1	17.2	15.4	15.6	15.1	16.0	17.9	15.7	0.0	20.1	194.6
Pump from Flatiron	kaf	18.0	21.0	17.1	17.2	12.1	7.5	9.3	12.7	0.0	0.0	0.0	0.0	114.9
Pump Energy	gwh	5.200	6.500	5.600	6.000	4.400	2.700	3.400	4.600	0.000	0.000	0.000	0.000	38.400
% Maximum Pumping	%	77	100	100	100	79	48	62	80	0	0	0	0	
Average	kwh/af	289	310	330	348	362	366	366	360	0	0	0	0	
Maximum Turbine release	kaf	22.5	24.0	22.6	26.0	25.9	27.1	26.2	26.7	25.6	18.9	0.0	19.8	265.3
Carter to Flatiron	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	1.5
Maximum Generation	gwh	4.200	4.800	4.800	5.700	5.800	6.000	5.800	5.900	5.500	3.900	0.000	3.700	56.100
Actual Generation	gwh	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.300	0.000	0.000	0.000	0.000	0.300
% Maximum Generation	%	0	0	0	0	0	0	0	6	0	0	0	0	
Average	kwh/af	0	0	0	0	0	0	0	221	0	0	0	0	

**Big Thompson Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Total release	kaf	0.0	0.0	0.0	0.0	0.0	5.2	15.1	18.4	11.1	8.6	1.5	0.1	60.0
Turbine release	kaf	0.0	0.0	0.0	0.0	0.0	5.2	15.1	18.4	11.1	8.6	1.5	0.1	60.0
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	0.000	0.000	0.000	0.000	0.000	3.800	3.700	3.800	3.800	3.700	3.800	3.700	26.300
Generation	gwh	0.000	0.000	0.000	0.000	0.000	0.500	2.300	2.900	1.600	1.100	0.000	0.000	8.400
% Maximum Generation	%	0	0	0	0	0	14	62	75	41	31	0	0	
Average	kwh/af	0	0	0	0	0	104	152	155	143	131	0	0	



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**Project Generation**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Total Generation	<b>gwh</b>	57.500	63.200	58.700	68.400	45.300	60.900	66.700	59.800	20.300	22.300	23.300	2.800	549.200
Total Max Generation	<b>gwh</b>	93.900	103.900	94.300	104.700	101.600	108.900	105.400	108.800	108.400	103.400	102.900	103.300	1239.500

**Project Pump Energy**

		Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Total
Granby	<b>gwh</b>	3.600	3.800	3.500	4.100	2.500	1.600	0.000	0.900	1.800	2.700	3.400	0.200	28.100
Willow Creek	<b>gwh</b>	0.000	0.000	0.000	0.000	0.700	3.600	2.900	0.700	0.300	0.200	0.200	0.500	9.100
Flatiron Unit 3	<b>gwh</b>	5.200	6.500	5.600	6.000	4.400	2.700	3.400	4.600	0.000	0.000	0.000	0.000	38.400
Total Pump Energy	<b>gwh</b>	8.800	10.300	9.200	10.100	7.500	7.900	6.300	6.300	2.100	2.900	3.500	0.700	75.600