#### DESCRIPTION OF THE COLORADO-BIG THOMPSON PROJECT

The Colorado-Big Thompson Project (C-BT) is one offhe largest and most complex natural resource developments undertaken by the Bureau of Reclaration. It consists of over 100 structures integrated into a transmountain water diversion system through which multiple benefits are provided.

The C-BT spreads over approximately 250 miles in the State of Colorado. It stores, regulates, and diverts water from the Colorado River west offhe Rocky Mountains, providing supplemental water for irrigation of 720,000 acres of land east of the Rocky Mountains. It also provides water for municipal use, industrial use, hydroelectric power, and water-oriented recreation.

Major features of the C-BT include dams, dikes, reservoirs, powerplants, pumping plants, pipelines, tunnels, transmission lines, substations, and other associated structures (table 1, exhibits 1 and 2).

Historically, the C-BT has diverted approxi mately 230,000 acre-feet of water annually (310,000 acre-feet maximum) from the Colorado River headwaters on the western slope to the South Platte River Basin on the eastern slope, for distribution to project lands and communities. The Northern Colorado Water Conservancy District (NCWCD) apportions the water used for irrigation to more than 120 ditches and 60 reservoirs. Twenty-nin e communities receive municipal and industrial water from the C-BT. The Western Division of the Pick-Sloan Missouri Basin Programmarkets the electric power produced at the six powerplants.

The western slope collection system captures runoff from the high mountains and stores, regulates, and conveys the water to Adans Tunnel for diversion to the east slope under the Continental Divide.

To ensure irrigation and power generation under pior rights on the ColoradoRiver, Green Mountain Reservoir was constructed on the Blue River. Spri ng runoff is stored in this reservoir and later released to meet the requirements of the senior water rights holders downstream along the Colorado River and to allow east slope diversion of water by the C-BT throughout the year.

Pursuant to authorities in Senate Document 80, (which authorized the C-BT), and the 1984 Green Mountain Operating Policy and the agreements in the September 1996 Stipulation and Agreement of the Orchard Mesa Check Case settlement (Case No. 91CW247, Colorado Water Div. 5), the content of the Historic Users Pool (HUP) in Green Mountain Reservoir is evaluated during the summer to determine the availability of water surplus to historic beneficiaries needs. If it is determined that surplus water is available, it may be delivered based upon need, first to the federal Grand Valley powerplant and then to other uses based on a priority system or on specific agreements.

Irrigation systems on the Colorado River, above the Blue River confluence, were improved to enable continued use of existing rights. Releases are made from Lake Granby to maintain the Colorado River as a live fishing stream.

The C-BTs principal storage facilities on the westlope are Lake Granby, Grand Lake, and Shadow Mountain Reservoir located on the Colorado River near Granby, and W illow Creek Reservoir located on Willow Creek, a tributary to the Colorado River below Lake Granby. Willow Creek Pumping Plant lifts the water 175 feet. It then flows by gravity via the Willow Creek Feeder Canal

down to Lake Granby.

Granby Pumping Plant lifts the water 99 feet fromLake Granby to Granby Pump Canal. The canal conveys the water 1.8 miles to Shadow Mountain Lake, which also intercepts North Fork flows of the Colorado River. Shadow Mountain Lake connects with Grand Lake to make a single body of water from which diversions flow to Adams Tunnel to begin the journey to the eastern slope.

Emerging from Adams Tunnel into the East Portal Reservoir, the water flows across Aspen Creek Valley in a siphon and then under Rams Horn Mountain through a tunnel. At this point, it enters a steel penstock and falls 205 feet to Marys Lake Powerplant. This powerplant is located on the west shore of Marys Lake, which provides afterbay and forebay capacity for re-regulating the flow. The water is conveyed between Marys Lake and Estes Power Plant, on the shore of Lake Estes, through Prospect Mountain Conduit and Prospect Mountain Tunnel.

Lake Estes, which serves as an afterbay for the Estes Powerplant, is formed by Olympus Dam. The storage in Lake Estes and the forebay storage in Marys Lake enable the Estes Powerplant to meet daily variations in energy demand.

Water from Lake Estes and the Big Thompson River flows are conveyed by Olympus Siphon and Tunnel, and Pole Hill Tunnel and Canal, to a penstock through which the water drops 815 feet to Pole Hill PowerPlant. The flow is then routedthrough Pole Hill PowerPlant Afterbay, Rattlesnake Tunnel, Pinewood Lake, and Bald Mountain Pressure Tunnel, and eventually dropped 1,055 feet through two penstocks to Flatiron PowerPlant. Thispowerplant discharges into Flatiron Reservoir, which regulates the water for release to the foothills storage and distribution system. The afterbay storage in Flatiron Reservoir and the forebay storage in Pinewood Lake enable Flatiron PowerPlant to meet daily power loads.

Southward, the Flatiron reversible pump/turbine lifts water from Flatiron Reservoir, a maximum of 297 feet, and delivers it through Carter Lake Reservoir Pressure Conduit and Tunnel to Carter Lake Reservoir. When the flow is reversed, the unit acts as a turbine-generator and produces electrical energy.

The Saint Vrain Supply Canal delivers water from Carter Lake Reservoir to the Little Thompson River, St. Vrain Creek, and Boulder Creek Supply Canal. The latter delivers water to Boulder Creek and Boulder Reservoir. The South Platte Supply Canal, diverting from Boulder Creek, delivers water to the South Platte River.

Northward, the Charles Hansen Feeder Canal transports water from Flatiron Reservoir to the Big Thompson River and Horsetooth Reservoir. The canal crosses the Big Thompson River in a siphon above the river and highway. Water from the Big Thompson River can be diverted into the canal by Dille Diversion Dam and utilized for power generation at Big Thompson PowerPlant.

C-BT water deliveries and Big Thom pson River wa ter to be returned to the river are dropped through a chute from the feeder canal ahead of the siphon crossing, or are passed through the Big Thompson PowerPlant to convert the available head to electrical energy.

Horsetooth Reservoir is located west of ForCollins between two hogback ridges, where Horsetooth

Dam closes the gap at one end. Soldier, Dixon, and Spring Canyon Dams and Satanka Dike close the remaining gaps. An outlet at Soldier Canyon Dam supplies water to the City of Fort Collins, three rural domestic water districts, Colorado State University, and the Dixon Feeder Canal for the irrigated area cut off from its original water s upply by the reservoir. The principal outlet from Horsetooth Reservoir is through Horsetooth Dam into the Charles Hansen Supply Canal. This canal delivers water to a chute discharging into the Cache la Poudre River and to a siphon crossing the river to supply the W indsor Reservoir and Cana l Company. A turnout from the Supply Canal supplies the City of Greeley municipal water works. Water is delivered to the river to replace, by exchange, water diverted upstream to the North Poudre Supply Canal, which conveys it to the North Poudre Irrigation Company System.

#### **SUMMARY OF OPERATIONS DURING WATER YEAR 2008**

The winter season during water year 2008 was extremely wet in some parts of the Upper Colorado River Basin, especially over the Blue River, the Eagle River and the Fryingpan River watersheds. Significant snow accumulated over that section of the state between the months of November and March. In some places snowpack reached well above average levels. In contrast, the east slope did not experience that kind of snowpack. The Big Thompson River Basin had a fairly dry winter season with a below average snowpack. Cold temperatures kept the snowpack fairly intact until late May. Peak runoffs for most of the river basins in Colorado were observed during the middle of June. The runoff season for the Colorado River Basin saw a significant volume, but not the high peaks that were initially anticipated given the depth of the snowpack. With temperatures fairly cool well into June, the runoff came down slow, steady, and lasted for weeks. Once the summer began, weather was average, with regular monsoonal storms in the afternoon and occasional weather system that augmented flows in the Colorado River and its tributaries. July and August were hot months but by then most of the snow was gone. The hot temperatures did not have a significant effect on river flows.

The snowpack over the Blue River Basin was well above average in 2008. The runoff produced by such deep snowpack pushed Dillon Reservoir, located upstream of Green Mountain Reservoir, up to its maximum capacity. Dillon's spill in 2008 was significant in volume and length. Its releases kept Green Mountain Reservoir near its maximum storage capacity for most of the summer. Since runoff and reservoir levels were sufficiently high by June, Green Mountain was able to participate in Coordinated Reservoir Operations in 2008. All releases from Green Mountain during the summer were made using its two turbines. There were no releases from Green Mountain through the spillway gates during water year 2008 as spillway rehabilitation began during the spring.

The highest daily average inflow for Green Mountain Reservoir was observed on May 22<sup>nd</sup>, a flow of 2,113 ft<sup>3</sup>/s. Depletions out of the Blue River were low earlier in the summer, which kept Green Mountain's inflow and water surface level high for several weeks. Its highest midnight reservoir content was 152,708 acre-feet recorded on June 7<sup>th</sup>. Green Mountain stayed almost completely full from early July until late in August. Its peak release during 2008 was a 24-hour average of 1,780 ft<sup>3</sup>/s. That flow was recorded on July 8<sup>th</sup>.

Granby Reservoir did not experience a runoff seas on comparable to the one at Green Mountain Reservoir, since the Upper Colorado watershed aboveGranby did not received much precipitation as the Blue River watershed. Given the lower precipitation and the constant diversions through Adams Tunnel, Granby's water surface level never reached its maximum storage capacity during water year 2008. Diversions through Adams Tunnel continued throughout most of the summer with only short interruptions. Granby Reservoir reached its highest content on July 11 th. Its storage content at the end of that day was 446,675 acre-feet, higher than the previous water year's peak storage content. The reservoir elevation at midnight on Jult 11th was 8266.65 feet. The highest daily native inflow was observed on June 30, 2006, a 24-hour average of 1,138 ft<sup>3</sup>/s.

As normal, Granby Reservoir began the water year with a water surface elevation on a downward trend. The trend continued from late fall until the spring. Transmountain diversions began early because of the failure of Flatiron Powerplant's unit #1 while the unit #2 was being repaired. There

was some concern at that point a bout the water levels at Carter and Horsetooth reservoirs for the following summer. In late October, 2007 a decisionwas made to begin diverting water immediately. Water continued flowing through Adams Tunnel without interruptions from November through July 31<sup>st</sup>, 2008. Water diverted during the winter months was sent to Horsetooth Reservoir while Carter Lake sat idle awaiting the completion of the construction of the new outlet works structure. By March 2008, pumping to Carter had resumed. Pumping continued uninterrupted until the summer. Lake Granby's lowest water contentfor the year was reached on April 2 §t. The storage content for that day at m idnight was 265,188 acr e-feet. C-BT water diversions continued flowing through Adams Tunnel until the fall.

The total computed inflow for Willow Creek Reservoir during water year 2008 was 79,621 acrefeet, from which 61,035 acre-feet was diverted to Granby Reservoir. Given the extremely high inflow during the peak of the runoff season combined with the limited storage capacity of the reservoir and the limited conveyance capacity of the Willow Creek Pumping Canal, the total volume of water released through the outlet works was higher than normal. A total of 18,970 acre-feet were released from the reservoir in water year 2008. From that total, 13,301 acre-feet was released as surcharge during the runoff season. An additional 946 acre-feet were released later in late September as the reservoir was been drained to allow work at the gate seals to begin. The highest 24-hour average inflow for the year was 1,318 ft<sup>3</sup>/s. That 24-hour average was recorded on May 22<sup>nd</sup>. Meanwhile, Windy Gap pumped a total of 33,520 acre-feet back to Granby Reservoir during water year 2008.

The total natural inflow to Grand Lake/Shadow Mountain Reservoir was estimated at 168,038 acre-feet for the entire water year 2008. This volume does not include water pumped from Granby Reservoir. By comparison, inflow for the previous year was estimated at 125,930 acrefeet. The highest inflow during the runoff season was recorded on June 3<sup>rd</sup>, a 24-hour average flow of 2,194 ft<sup>3</sup>/s. Given the limited capacity of Adams Tunnel and the rest of the C-BT system, most of the natural inflow during May and June was bypassed and sent to Granby Reservoir for storage. In addition to the natural inflow to Grand Lake/Shadow Mountain Reservoir in 2008, a total of 212,030 acre-feet were pumped from Granby through the Farr Pumping Plant. Pumping took place mainly between late October, 2007 and the middle of May, 2008. Pumping from Granby was resumed in July, 2008, with a 2 week interruption the first two weeks in August. During August, 2008, at the request of Grand County and other local groups, ECAO in consultation with the NCWCD conducted a water clarity test for Grand Lake. The goal of the test was to determine if by reducing any flow from Shadow Mountain into Grand Lake during the hot summer days the clarity of the water at Grand Lake could be improved. The three week test was cut short by a week when demands for water from the east slope increased unexpectedly. Transmountain diversions for the year totaled 286,518 acre-feet, 53,000 acre-feet more than the previous year. This total includes Windy Gap water.

Over the east slope the runoff season came a little later during 2008 than previous years. Colder temperatures during the spring months prevented any sudden peaks for the inflow to Lake Estes. The snowpack melted slowly with most of the runoff occurring between June and July. The highest 24-hour average inflow computed for Lake Estes during water year 2008 was 657 ft<sup>3</sup>/s on June 3<sup>rd</sup>. The total inflow for the year at Lake Estes was 88,142 acre-feet.

Winter and spring were fairly dry over the east slope in 2008. However, many reservoirs on the

east slope were left with near-capacity pools from the previous year, so water demands came late in the spring. As dry conditions worsen during the early summer the expectations for high demands increased. The NCWCD increased their quota for the season in July. Given the low runoff flows and the dry conditions of the summer the C-BT never entered priority to capture Big Thompson decreed water during 2008.

With the unavailability of Flatiron Powerplant units #1 and #2 during late Ocober, November and early December of 2007, the Tunnel No. 1 and the Big Thompson Diversion Structure (Dille Tunnel) were used to move C-BT water to Horsetooth. Once the Flatiron unit #2 became available late in December, the diversion structure was winterized and remained unavailable until April 4<sup>th</sup>, 2008. By June the runoff season for the Big Thompson River watershed arrived. When the Big Thompson Powerplant was made available late in June the skim operations through the Dille Tunnel finally began. Large volumes of water were borrowed from the river and used to generate electric power, mainly between late June and July. As the foothill's power system was used to move C-BT water to Carter Lake and Horsetooth during most of the spring, summer and fall, the Dille's contribution to the power skim operation became even more important. Power skim diversions through Dille Tunnel in 2008 totaled 28,866 acre-feet, compared to only 4,774 acre-feet the year before.

The Big Thompson River experienced a dry runoff season during water year 2008. Flows were at their highest during late June but moderate thereafter. With the dry conditions of the spring and summer, water demands were relatively high after June. Deliveries of C-BT water through the Charles Hansen Feeder Canal Wasteway, the Charles Hansen Supply Canal and the Saint Vrain Canal began in early May. Once deliveries of C-BT water began, they continued uninterrupted until the end of October. Demands for C-BT water from the east slope peaked in the summer months.

C-BT water began to flow to Horsetooth late in October, 2007. The construction of the new outlet works at Carter Lake prevented any pumping during the winter, therefore all the C-BT water was sent north to Horsetooth between October and late February. Horsetooth Reservoir's elevation reached 5415.10 feet on March 20<sup>th</sup>, its highest water surface level of the water year. The storage content recorded at midnight was 127,961 acre-feet. As most of the C-BT water flow was switched to Carter Lake in early March, Horsetooth's elevation slowly began to drop from that point on. Additional C-BT water was sent to Horsetooth later in the spring and summer months which benefited Larimer County's recreational activities during their busy season. But water deliveries were high throughout the summer and Horsetooth's level eventually began to drop at a faster rate. Despite the high demands and all the constrictions in the conveyance system due to facility outages and other issues, sufficient water was stored at Horsetooth early in the year to meet all the demands while keeping all the boat ramps in the water during critical dates in the fall.

Carter Lake began the water year with a storage content of only 20,100 acre-feet. The reservoir's level was dropped down to almost the dead pool to allow the construction of the new outlet works structure to begin. As requested, on October 1 st, 2007, the reservoir level was dropped below elevation 5657.00 feet. Between October and late February the reservoir level was kept below that elevation to allow construction to continue. Brief periods of pum ping took place during those months to keep the storage content between 15,000 and 20,100 acre-feet. The water in that pool was

sufficient to meet all the municipal demands. Once the construction work ended in late February, pumping to Carter Lake began and continued uninterrupted until July. Carter Lake Reservoir finally reached its highest level for the year on July 11<sup>th</sup>. The reservoir elevation that night was 5727.81 feet, which holds a storage content of 78,556 acre-feet. Carter Lake ended the year with a water surface elevation of 5701.40 feet. Flatiron Powerplant unit # 3 did not generate any power during water year 2008. The highest daily average pumping rate was estimated at 469 ft³/s on November 11<sup>th</sup>. The highest pumping rates were observed when Carter Lake's water surface elevation was around or below 5650.00 feet. The total pumping volume to Carter Lake for the water year 2008 was 138,462 acre-feet.

The initial quota for C-BT diversions declared by the NCWCD in November, 2007 was 60% or 186,000 acre-feet. The quota was first increased in April, 2008 to 70% or 217,000 acre-feet. Then as the summer arrived, with the dry and hot summer months ahead, NCWCD increased the quota one more time in July. That third time the quota was increased to 80 % or 248,000 acrefeet.

Potential carryover of C-BT water from water year 2008 to water year 2009 was 54,225 acrefeet. Alloties are expected to pay for 50,000 to 51,000 acre-feet out of the total volume available. Final deliveries of carryover water from water year 2007 totaled 50,579 acre-feet during water year 2008.

Water diversions through Adams Tunnel totaled 286,518 acre-feet for the water year. The water deliveries through the C-BT between October 1<sup>st</sup>, 2007 and September 30<sup>th</sup>, 2008 totaled 215,835 acre-feet. That includes water delivered from Horsetooth Reservoir and Carter Lake Reservoir, Olympus Dam, the Trifurcation at the Charles Hansen Feeder Canal, and from some of the water conveyance facilities. The total C-BT deliveries do not include Big Thompson River decreed water diverted through the C-BT system for the cities of Loveland and Berthoud, or any Windy Gap project water deliveries.

Total C-BT generation for the water year 2008 was above average with 630.5 giga-watt-hours produced (GWh), which is 105 % of average. This includes power generated at Green Mountain, Marys, Estes, Pole Hill, Flatiron, and the Big Thompson powerplants.

#### WATER YEAR 2008 OPERATIONS

#### **Green Mountain Reservoir**

Green Mountain Reservoir and Powerplant, completed in 1943, are located south of the town of Kremmling, a few miles upstream of the confluence of the Blue River and the Colorado River in North Central Colorado. The reservoir, with a total capacity of 153,639 acre-feet, provides storage water releases for power production, replacement of out-of-priority depletions, and contract water deliveries. The powerplant has two units with a total installed capacity of 26 megawatts. The spillway, located on the left abutment, is controlled by three 25 x 22 foot radial gates and is capable of discharging 25,000 ft<sup>3</sup>/s.

Start of fill for 2008 was declared as April 24, with the reservoir holding 61,581 acre-feet in storage, somewhat below its historic 65,000 acre-foot start of fill target. Pursuant to the State Engineers Office's interim policy, "Administration of Green Mountain Reservoir for 2008" of May 29, 2008 (Attachment B), Green Mountain Reservoir achieved a "paper fill" on May 31, 2008. On that date, Denver Water and Colorado Springs Utilities (Cities) owed Green Mountain Reservoir 9,165 acre-feet of water for their out-of-priority diversions. A provision of the interim policy allowed Green Mountain Reservoir to continue storing its inflow under a 1955 water right after "paper filling" to reduce the amount of water owed by the Cities. Under this provision, Green Mountain Reservoir was able to store sufficient water by June 5 to entirely eliminate the amount owed by the Cities.

By taking advantage of its junior and senior refill rights, Green Mountain Reservoir was able to continue storing some of its inflow after June 5, attaining a maximum physical content for the year of 152,708 acre-feet on July 7. With the reservoir achieving a "paper fill" this year, the 52,000 acre-foot Colorado-Big Thompson Project replacement pool, the 5,000 acre-foot Silt Project reservation, the 66,000 acre-foot HUP allocation, and the 20,000 acre-foot set aside for contracts were all fully available this year.

The maximum drawdown rate limitations initially put in place in 2003 due to landslide concerns were continued in 2008. These drawdown rate limitations were to be initiated when the reservoir's water surface elevation dropped below 7880.0 feet. With the reservoir achieving both a "paper fill" and a physical fill in 2008, the water surface elevation remained above 7900.0 feet during the irrigation season, and therefore, the drawdown rate limitations were never triggered.

While the interim policy requires that upstream depletions by Green Mountain beneficiaries junior to Green Mountain be charged against the "paper fill" of Green Mountain Reservoir, those depletions were not charged against this year's HUP allocation. Therefore, the entire 66,000 acre-foot HUP allocation remained available when the reservoir achieved its fill. Due to the lack of a downstream call at either Shoshone or Cameo until the Shoshone Powerplant was returned to service in October, releases to augment the water rights of HUP beneficiaries downstream of Green Mountain didn't commence until October 6, with a total of only 216 acre-feet being released for that purpose during the year.

HUP surplus releases and the discretionary releases under the informal Shoshone outage agreement both commenced on August 27. During a majority of the period in which the discretionary releases were being made, the HUP surplus releases were generally held to fixed rates while the discretionary releases were allowed to vary in order to maintain Green Mountain Reservoir's river account at zero. Between August 27 and October 29, HUP surplus releases generally varied between about 200 cfs and 700 cfs, depending upon the native flow of the basin and the decisions of the Managing Entities in their attempts to support the endangered fish flow targets in the 15-Mile Reach. The HUP surplus releases were terminated for the remainder of the year on October 29 at the end of the irrigation season. HUP surplus releases totaled 61,433 acre-feet in 2008, with the entire release volume being attributable to the Municipal/Recreation Contract. Together, the releases for HUP beneficiaries above and below Green Mountain Reservoir and the HUP surplus releases totaled 61,649 acre-feet in 2008. This resulted in an HUP balance of 4,351 acre-feet on October 31. The daily distribution of releases from the HUP is provided in Table 4 and the HUP's content relative to the dry-year upper and lower bands is shown in Figure 1. The discretionary releases totaled 11,591 acre-feet and were made between August 27 and October 20, at daily average rates varying from 23 cfs to 221 cfs.

Operations at Blue River, Dillon, and Green Mountain reservoirs during water year 2008 are summarized in Table 2. Gross generation at the Green Mountain Powerplant totaled 63,900,000 kilowatt-hours during water year 2008. That total is 123% of the 30 year average.

# Willow Creek Reservoir

Completed in 1953, Willow Creek Reservoir has a total storage capacity of 10,600 acre-feet. The uncontrolled spillway, located at the left abut ment, has a maximum flow capacity of 3,200 ft <sup>3</sup>/s. The Willow Creek Feeder Canal also begins at the left abutment and it has a capacity of 400 ft <sup>3</sup>/s. The canal is used to transfer water to Granby Reservoir. Excess inflow into the reservoir is noved by way of the Willow Creek Feeder Canal and pumped to Lake Granby for storage.

There was some pumping during October and November of 2007 to evacuate some of that water and position Willow Creek Reservoir's elevation for winter operations. The Willow Creek Canal was winterized after that.

The Willow Creek watershed received significant snow during the winter and spring months of water year 2008. By March, 2008 the snow-water content over the watershed was 128 % of average. The high snow-water content resulted in an April-July most-probable runoff forecast of 68,000 acre-feet. Not surprisingly, that runoff forecast materialized. Inflow reported for Willow Creek Reservoir was 68,000 acre-feet for the same period. The high snow-water content and high probability of substantial inflow also prompted early reservoir releases. Between May and July of 2008 a total of 14,500 acre-feet were released through the outlet works. The releases combined with the water pumped to Lake Granby kept the reservoir elevation below spillway levels. Total pumpage for the water year totaled nearly 61,000 acre-feet. Total inflow for the water year was 79,600 acre-feet, 133% of average. The highest reservoir release recorded for the water year was a daily average flow of 858 ft³/s on May 23<sup>rd</sup>. The same day, average inflow was 1,318 ft³/s.

# **Granby Reservoir**

Completed in 1950, Granby Reservoir on the upper Colorado River collects and stores most of the water supply for the C-BT. The reservoir stores the flow of the Colorado River as well as water pumped from Willow Creek Reservoir. The reservoir has a total storage capacity of 539,800 acre-feet. The spillway is located on the left abutment. Flows over the spillway are controlled by two radial gates, with a total release capacity of 11,500 ft<sup>3</sup>/s. The Granby Pumping Plant has three units with a combined installed capacity of 600 ft<sup>3</sup>/s.

Granby Reservoir carryover content into water year 2008 was 376,356 acre-feet, or 86 % of the 30-year average. The water year began with above average precipitation during the winter and early spring months. A series of weather disturbances impacted the west slope between the months of December and January. By the end of January the snow-pack reports were promising. Snowstorms continued to hit the region in the early spring, however most of the precipitation was west and south of the Upper Colorado watershed. Unlike the Willow Creek watershed, the Upper Colorado did not experience significant precipitation during the spring months and the snowpack began to disappear early in the season. By April the total precipitation for the water year at the Granby Reservoir was 8.32 inches or 112% of average. The snow-water content reported on April 1<sup>st</sup> was 14.0 inches or 116% of average.

Temperatures during the spring months of 2008 were cooler than normal over most of Colorado resulting in a relatively late runoff season. As warmer weather settled over the region by the middle of May, runoff began to increase. The most-probable-runoff forecast for April 1<sup>st</sup> predicted 218,000 acre-feet for Granby watershed between April and July. The total native inflow to Granby, Shadow Mountain and Grand Lake combined for those months was 216,968 acre-feet.

Total precipitation for the water year in the Granby Reservoir watershed was 17.48 inches or 101% of average. The 30-year average precipitation for the watershed is 17.35 inches. The total cumulative inflow for the entire water year was 274,400 acre-feet, higher than the 30-year average of 252,930 acre-feet. The highest daily average native inflow was 1,138 ft<sup>3</sup>/s recorded on July 1<sup>st</sup>.

The summer months were relatively dry and warm over Northern Colorado, which increased demands for C-BT water over the east slope. Granby reached its highest content of 437,455 acre-feet on July 10<sup>th</sup>. The reservoir level remained relatively stable during July and August. High demands for C-BT water from the east slope began by the middle of July. However, even with the high demands for C-BT water Granby's elevation remained relatively stable during the period. One of the reasons for the stable water surface levels during the late summer was an alternative operational test which took place in August. This test was conducted to determine to which extent the project operations affect the water clarity at Grand Lake. The operation prevented any pumping from the Farr Plant for over 2 weeks in August. Without any pumping from the Farr Plant the reservoir level remained fairly flat for a number of weeks.

Granby Reservoir never reached its maximum capacity during water year 2008. The reservoir finished the water year with 408,300 acre-feet in storage, which represents 93% of the 30-year average. That volume was also 32,000 acre-feet higher than the volume recorded on September

30<sup>th</sup> of 2007.

# **Grand Lake/Shadow Mountain Reservoir**

During August of 2008 the regular operations of the C-BT were modified in order to verify the impact of regular project operations on water clarity at Grand Lake. The plan was to suspend all pumping from Granby Reservoir to Shadow Mountain Reservoir for a period of three weeks while maintaining a positive flow from Grand Lake to Shadow Mountain. The original plan was to begin the test on August 1<sup>st</sup> and continue it through August 21<sup>st</sup>. However, by the middle of the second week of testing the demands for C-BT water from the east slope began to puta lot of pressure on the system. At that point it was decided to reduce the test period to only two weeks. Pumping at the Farr Plant resumed on August 16<sup>th</sup>.

# **Adams Tunnel**

Diversions through the Adams Tunnel during water year 2008 were 53,000 acre-feet higher than the previous year. The total volume diverted through the tunnel was 286,900 acre-feet. That is 126% of the 30-year average. Water diversions began in late October 2007 and continued uninterrupted until August 2<sup>nd</sup>, 2008. Flows through the tunnel were dropped significantly at that point to accommodate the water clarity test for Grand Lake. Diversions resumed on August 16<sup>th</sup>, 2008.

## **Lake Estes**

Completed in 1949, Lake Estes on the Big Thompson River provides regulating capacity for power generation purposes. The reservoir has a total capacity of 3,100 acre-feet. It captures the discharge of Estes Powerplant and inflow coming from the Big Thompson River, regulates river flow below the dam, and releases of water to the Foothills Power System via Olympus Tunnel (550 ft³/s capacity). The Estes Powerplant has three hydroelectric units with a total installed capacity of 45 megawatts. The combined flow capacity for the three units is 1,300 ft³/s. The spillway, located on the right abutment, has five radial gates with a total discharge capacity of 21,200 ft³/s. The center gate has been automated, and is operated remotely from the Loveland Control Center (LCC). During the winter months, C-BT water is diverted through Adams and Olympus tunnels and routed through the Foothills Power System on its journey to terminal storage at Carter and Horsetooth reservoirs. This complete operation is controlled remotely from the LCC.

The winter season of water year 2008 was relatively dry over the Big Thompson River watershed. The March 1<sup>st</sup> snow-water content was 3.12 inches or 69% of average. The situation did not improve much during the spring months. By June the precipitation at Estes for the water year was only 7.93 inches of 73 % of average. However, temperatures remained on the cool side until the middle of June, which kept demands for C-BT water relatively low. Runoff came late in June as temperatures finally began to rise. The April most-probable runoff forecast predicted an inflow for Lake Estes of 97,000 acre-feet for the period April-July. However, only 62,000 acre-feet of inflow were actually observed for that period.

The C-BT did not enter priority to capture east slope water from the Big Thompson River during water year 2008. The demands for C-BT water were high during the summer months, fueled by warm weather, dry conditions and an 80% quota for C-BT alloties announced in July. Monsoonal storms in July and August helped to alleviate the dry conditions over the region, but the farming community and east slope municipalities continued their high demands for C-BT water. That kept the Adams Tunnel transmountain diversions flowing high until September. Power generation at Marys and Estes powerplants benefited from the continuous flows from the west slope.

The highest daily average inflow for Lake Estes this past water year was 657 ft<sup>3</sup>/sec, computed on June 4<sup>th</sup>. The total cumulative inflow for the water year was 88,300 acre-feet, representing 94% of the 30-year average. Adams Tunnel continued to run nearly full most of the year, due to the need for C-BT water over the east slope in 2008. That limited the total volume of skimmed through the Olympus Tunnel for the water year to 1,701 acre-feet, only 5% of average.

# Foothill's System

The water year 2008 began with Carter Lake at its lowest water surface level in decades. Construction of the new outlet works structure began in the fall of 2007, therefore its water surface level had to be lowered prior to the October 1<sup>st</sup>. Work began in October and continued through the winter months. The water surface level limitation was not lifted until late February, 2008. During the construction period water had to be pumped from Flatiron on a regular basis in order to keep sufficient water in storage to satisfy water demands. Carter's reservoir level was kept below 5657.00 feet during construction.

A crisis emerged during late October when Flatiron's unit #1 failed and became unavailable. The situation was aggravated by the unavailability of unit #2 which was down for repairs at the moment. The unavailability of both units at Flatiron Powerplant and concerns about the possibility of not having them operational for a significant length of time forced some unusual decisions.

Given the limitations in the system, the decision was made to begin diverting water from the west slope much earlier than usual. But with both units at Flatiron Powerplant unavailable the diverted water could not be brought down through the foothill's power system.

Diversions began in late October, 2007. Diverted water was sent down the Big Thompson River from Olympus Dam. The operation began well before any icing along the river had started. By keeping the flow relatively high and constant the river channel was kept open from any ice during the operation. Water was captured at the Dille diversion near the Canyon Mouth and sent north to Horsetooth Reservoir.

However, despite the high flows by late November ice began to form and accumulate at the Dille structure. By December, significant ice had formed on the trash racks and in the upstream pool. The situation continued until Flatiron's unit #2 became available in the middle of December. Once the unit #2 was made available the Dille diversion structure was finally winterized and water began to flow once again through the foothill's power system. The initial flowrate through unit #2 was 360 ft<sup>3</sup>/sec producing 25 megawatt-hours, the maximum capacity allowed at the

moment. The availability of Flatiron's unit #2 allowed pumping to Carter Lake to resume for a few days in December and January which kept reservoir elevation closed to 5657.0 feet during that critical construction period. Water also continued to flow north to Horsetooth throughout the winter months.

In late February the construction work at the new Carter Lake outlet works was nearly completed and pumping began. The pumping operation continued uninterrupted until late July, bringing the reservoir elevation back to normal levels by late April and allowing recreation to begin on time.

The movement of C-BT water through the system during the spring and summer months prevented any skim operations through Olympus Tunnel. Decreed water for the cities of Loveland and Berthoud was occasionally diverted through the Olympus Tunnel and the foothill's power system during the spring and summer months, but most of the time the tunnel capacity was occupied by C-BT water. The only possible chance to move skim water through the foothill's power system came in August during the Grand Lake water clarity test. But by then the runoff and inflow to Lake Estes was not enough to keep the powerplants running.

Water diverted through Dille Tunnel serves four purposes; 1) it can supply the City of Loveland and other users with their Big Thompson River decreed water; 2) it can be used as skim water and passed through the Big Thompson Powerplant to generate electricity; 3) it is used in an exchange to supply the municipalities such as Berthoud and Loveland with their Big Thompson River decreed water; 4) when the C-BT is declared by the State of Colorado to be in priority to catch Big Thompson River water, it can divert runoff and store at Horsetooth Reservoir. This past water year the Dille diversion was able to capture part of the high flows observed down the Big Thompson River and skim it. However, the operation began late in the season because of the work taking place at the Big Thompson Powerplant and its subsequent testing period. Skim operations through Dille begin on June 20<sup>th</sup>. The Dille Tunnel operations diverted a total of 28,867 acre-feet during the entire water year. Most of that water was used for power generation at the Big Thompson Powerplant. The total power skim was 120% of the 30-year average of 24,100 acre-feet. Some decreed water from the cities of Berthoud and Loveland was also diverted through the Dille Tunnel.

The Big Thompson River native flow skimmed through Olympus and Dille tunnels reduces the flows measured at the mouth of the Big Thompson Canyon, as the water is returned to the river below the canyon mouth stream gage. The Big Thompson River stream gage at the canyon mouth measured a total of 63,328 acre-feet of water (official figure published by the State of Colorado, Division of Water Resources) during the water year which represents approximately 48% of the 30-year average. The flow at the mouth of the canyon includes water releases from Olympus Dam, native flow from the North Fork of the Big Thompson River and other local runoff. The bulk of the flow at the Canyon Mouth gage normally occurs between May and early August.

A small portion of the power generated in 2008 by the powerplants in the foothill's power system came from the skim operations. Most of the power generated by the C-BT during the entire year was produced thanks to the high demands for C-BT water over the east slope. C-BT water diversions from the west slope kept all the powerplant generating almost the entire year. The six powerplants in the C-BT produced a total of 630.5 GWh of power during the water year

2008, which represents over 105% of the 30-year average. Flatiron, Pole Hill and the Big Thompson powerplants produced a total of 394.3 GWh, 96% of the 30-year average.

## **Carter Lake Reservoir**

Completed in 1952 with three dams, Carter Lake Reservoir has a total storage capacity of 112,200 acre-feet. Inflow of C-BT water to Carter Lake Reservoir is from the Flatiron Pumping Plant with a capacity of up to 450 ft<sup>3</sup>/s.

The Carter Lake Reservoir storage content on September 30<sup>th</sup>, 2007 was 20,226 acre-feet. In order to accommodate the construction of the new outlet works structure the reservoir's water content target for October 1<sup>st</sup> was set at 20,000 acre-feet (elevation 5657.0 feet). The target was met on time and the reservoir level was kept below that upper limit for the following five months. The reservoir pool available was used to meet demands during the construction period. Pumping kept the storage content always above 15,000. The reservoir content never reached more than 20,000 acre-feet during construction.

By February 26<sup>th</sup>, the construction of the new outlet works structure had been completed. Pumping to Carter Lake resumed that day. Once pumping began the reservoir level bounced back to reached a maximum content of 78,556 acre-feet on July 12<sup>ve</sup>. The 30-year average maximum content is 79,500 acre-feet.

The pumping operation with Flatiron unit #3 required a total of 40,100,000 kilowatt-hours of energy, 150% of the 30-year average. Water deliveries to the Saint Vrain Supply Canal during water year 2008 totaled 83,900 acre-feet. The 30-year annual average water delivery total is 81,500 acre-feet. The month of July had the highest volume of water deliveries out of Carter Lake with a total of 14,078 acre-feet. Carter Lake Reservoir ended the water year at elevation 5707.40 feet and with a storage content of 53,434 acre-feet. All the construction, recreation and water delivery targets for Carter Lake Reservoir were met during water year 2008.

#### **Horsetooth Reservoir**

Completed in 1949, with four dams, Horsetooth Reservoir has a total constructed capacity of 156,700 acre-feet. Inflow to Horsetooth is comes mainly from C-BT water delivered via the Charles Hansen Feeder Canal.

Operations at Horsetooth Reservoir during water year 2008 were relatively normal. Horsetooth began the year at elevation 5386.14 feet, with 80,626 acre-feet of water in storage. As work on the new Carter Lake outlet works structure continued throughout the winter months, most of the C-BT water diverted from the Colorado River was being stored at Horsetooth. By late February, 2008 the reservoir elevation target had been achieved and flow of C-BT water was transferred to Carter Lake. Horsetooth reached it highest storage content for the water year 2008 on March 21<sup>st</sup>, a total of 127,961 acre-feet. The water surface level that day reached an elevation of 5415.06 feet.

As most of the flow of C-BT water was transferred to Carter Lake, and as demands for C-BT water began to increase during the spring months, Horsetooth's reservoir level began to slowly

drop. By the end of June its level had fallen to 5405.37 feet, 10 feet below its highest level for the year. Despite the reservoir level drop in the spring, Horsetooth found itself in good position to meet all the targets of the fall season ahead. Water deliveries for the year were 99% of average. A total of 89,400 acre-feet of water were delivered out of Horsetooth Reservoir during water year 2008. All the recreational and water delivery targets for Horsetooth Reservoir were met during water year 2008.

#### **FLOOD BENEFITS**

Precipitation over the Colorado River Basin was significantly high during the winter and spring months of water year 2008. The deep snowpack insome locations triggered early preparations for potential flooding condition at many locations around the west slope. By early March the snowpack reports for the upper Colorado River Basin had reached levels over 130% of the 30-year average. The April through July runoff forecast for green Mountain reservoir predicted a most-probable total of 355,000 acre-feet, 129% of average. Willow Creek and Granby reservoirs also had high April through July runoff forecasts. Willow Creek had a forecast of 67,000 acre-feet, 20,000 acre-feet higher than the average, and Granby had a forecast of 218,000 acre-feet, 23,000 higher than the average. Luckily, temperatures rose slowly during the spring month creating a long runoff season with peak flows that were never threatening. The reservoir level in the C-BT system—were well positioned by the middle of the spring, with sufficient storage capacity to capture a large portion of the peak runoff flows and in the process preventing any flooding from occurring downstream.

By the contrary, the east slope experienced a relatively dry winter and spring period, with snowpack number near or below average. As it was the case over the west slope, the east slope experience a mild spring season. Runoff came down slowly and fairlylate in the season. Bythe end of July most of the runoff was over. The C-BT reservoirs over the east slope did not face any significant flooding conditions during water year 2008.

Based on the data collected from the Colorado River Basin, and according to figures provided by the U.S. Army Corps of Engineers, C-BT reservoirs over the west slope prevented flood damages during water year 2008. According to the Corps of Engieers report, Green Mountain Reservoir prevented a total \$1,000 in possible flood damages during water year 2008, while Willow Creek, Granby and Shadow Mountain/Grand Lake prevented a total of \$8,000 in possible flood damages.

Since construction, the C-BT has prevented flood damages totaling \$402,300.

#### C-BT PLANNING AND CONTROL

The C-BT is operated to provide supplemental municipal and industrial water supply, as well as irrigation water supply and hydroelectric power production. Some of the benefits from the operation of the project are reduction of flood damages, recreation, and fish-and-wildlife preservation, among others. The C-BT is operated for the purposes for which it was authorized and constructed.

The integrated operation of the C-BT is planned and coordinated by the Bureau of Reclamation, Water Scheduling and Control Group, Eastern Colorado Area Office in Loveland, Colorado. Staff at this office collects and analyzes information daily and makes the decisions necessary for successful operation of the C-BT. This continuous water management function involves coordination between the Division of Water Resources of the State of Colorado, the NCWCD, Upper Colorado and Great Plains Regions of Reclamation, the Western Area Power Administration (from the Department of Energy), and many other local, state, and Federal agencies.

Experience has proven that proper utilization of the available water resource in a multi-purpose project such as the C-BT can be achieved only through careful budgeting and management of the anticipated water supply. One end product of this budgeting and management process is an Annual Operating Plan (AOP).

The C-BT is operated on a water year basis (October 1 through September 30). The AOP is prepared in January of each year, following the plan's review and necessary public meetings. AOPs are prepared for reasonable-maximum and reasonable-minimum conditions of water supply and requirements as well as for the most-probable runoff conditions. The C-BT is operated to optimize the most-probable water supply without jeopardizing operational position should either the reasonable-maximum or the reasonable-minimum water supply conditions occur. The plan is reviewed and revised as necessary during the year as new information or changing conditions occur. Flexibility is a keynote and a necessity of the plan. Computer programs and models are used by Reclamation to develop the AOP and water supply forecasts.

#### ANNUAL OPERATING PLAN FOR WATER YEAR 2009

Three operation studies or model runs for the C-BT were developed on October, 2008 to establish the Annual Operating Plan (AOP) for water year 2009 based on different inflow conditions. Each of the studies conformed to the established operating criteria but used differing inflow conditions and water demands. With up-to-date data and information those AOP model runs were revised in November, 2008. The November, 2008 versions of the AOP model runs are presented in this report.

The possibilities of all three inflow conditions were determined from a probability analysis of historic monthly inflows, and were labeled reasonable-minimum, reasonable-maximum, and most probable. Reservoir inflow during water year 2009 has a one-in-twenty chance of being less than the reasonable-minimum and a one-in-twenty chance of being greater than the reasonable-maximum. Statistically, inflows in 2009 will have a nine-in-ten chance of falling between the two extremes. The most probable inflow is based on long-term averages and approximates a 50% chance of occurrence. The three studies for water year 2009 are summarized numerically in Appendix B, tables 5A, 5B, and 5C, and displayed graphically in Appendix C, exhibits 3 through 7.

This report is intended only as a guide for upcoming spring and summer operations. Forecasts of the April-July reservoir inflows will be made at the beginning of each month from February through June. The majority of snowmelt runoff occurs in the April-July period. Projected operating schedules will be adjusted, as required throughout the water year, as changes occur to the forecasted inflows, irrigation demands, maintenance schedules, and power loads. Any of the reservoir levels, canal and tunnel flows, pumping and power operations presented in this report are preliminary and subject to changes as conditions mandate.

## **OCTOBER-JANUARY PERIOD**

The three studies for the October-January period of water year 2009 are similar because winter inflows are nearly the same under the three conditions of inflow. The most-probable inflow condition for the water year 2009 October-January C-BT operations is summarized in the following paragraphs. Operations for this period reflect scheduled maintenance and outages on several facilities in the C-BT

#### **Green Mountain Reservoir**

Green Mountain Reservoir began the water year 2008 with 109,520 acre-feet in storage, alm ost 12,000 acre-feet below the 30-year average. Releases for bypass of inflow and C-BT replacement continued from water year 2008 into water y ear 2009. Total releases from Green Mountain Reservoir for replacement, bypass of inflow, powergeneration and other reservoir operations totaled over 79,000 acre-feet during the October-December period. Those releases reduced the storage to approximately 69,031 acre-feet by December 31<sup>st</sup>.

Releases for replacement, bypass of inflow, power, and reservoir regulation averaged 431 ft<sup>3</sup>/sec

during the first three months of water year 2009, with flows ranging from 200 ft<sup>3</sup>/s on November 30<sup>th</sup> to 030 ft<sup>3</sup>/s on October 1<sup>st</sup>. Releases during January were kept at a steady rate of 250 ft/s. All the reservoir releases between October and — January were m ade using the Green Mountain Powerplant turbines.

# Willow Creek Reservoir

For the period October 1<sup>st</sup> to December 31<sup>st</sup>, the inflow into Willow Creek Reservoir averaged 15 ft<sup>3</sup>/s. The average release for the same period was 7 ft<sup>3</sup>/s. Meanwhile, the pump and canal system used to transfer water from Willow Creek Reservoir to Granby Reservoir was winterized during that period. The system was not used after September 30<sup>th</sup>.

# **Granby Reservoir-East Slope Terminal Storage**

The storage in Granby Reservoir at the beginning of the water year 2009 was 408,300 acre-feet, almost 36,000 acre-feet higher than the previous year but 26,000 acre-feet below the 30-year average.

C-BT diversions from the west slope through Adams Tunnel continued at near-full capacity through October Diversions were temporarily interrupted during November to accommodate system outages and maintenance schedules, before resuming in early December. Most of the water been diverted was pumped up to Carter Lake, with residual flows going north to Horsetooth Reservoir. Given the early start in water year 2009, the total volume of water that crossed the Adam Tunnel between October and December of 2008 was higher than normal. Approximately 79,500 acre-feet of water was diverted to the east slope during that period.

Pumping to Carter Lake began in December, 2008 and will continue until some time in April. As of December 31<sup>st</sup>, Carter Lake was holding 62,584 acre-feet in storage. At the same time, Horsetooth had 78,985 acre-feet in storage (the Horsetooth content value was estimated since the reservoir level gage was unavailable at the time).

## FEBRUARY THROUGH SEPTEMBER

#### **Most-Probable Inflow Forecast**

#### **Green Mountain Reservoir**

Under the most probable runoff plan scheduled releases from Green Mountain Reservoir for power generation, replacement and regulation will target an end-of-the-month storage at Green Mountain for March 31<sup>st</sup> of 75,000 acre-feet. However, this target was achievabled by winter. By the beginning of the start-of-fill, which is expected to occur sometime between April and early May, releases will be held at or near 60 ft<sup>3</sup>/s in order to catch and store the maximum volume of inflow possible. A complete fill should be achieved under the most-probable. That minimum flow will likely continue until the end of June. The minimum release of 60 ft<sup>3</sup>/s is required and closely monitored.

The snowpack levels for the Blue River Basin by the end of December, 2008 have been determined to be above average. Given the current conditions, the current snow-water content measured within the Blue River watershed, and according to the most-probable inflow forecast, it appears at this time that Green Mountain Reservoir may be able to participate in the Coordinated Reservoir Operations this coming spring. A decision will be made later in the spring. The Coordinated Reservoir Operations is an interagency program developed to enhance the spring peak flows along the 15-Mile-Reach in an attempt to benefit endangered fish species. Native inflow is passed through during that period to enhance the peak flow along the Colorado River. Regardless of weather the Coordinated Reservoir Operations take place or not in 2009, Green Mountain Reservoir is expected to fill by the end or June or by early July. Assuming normal inflow and near-average releases for downstream water users during August and September, reservoir storage is projected to drop to approximately 101,300 acre-feet by the end of September.

Assuming most-probable runoff conditions, the Denver and Colorado Springs' Blue River depletions are projected to be approximately 94,200 acre-feet during the water year 2009.

Concrete repair work on the spillway at Green Mountain will continue for the foreseeable future. However, the spillway will be available if needed during the peak of the runoff season.

#### Willow Creek Reservoir

Under the most-probable runoff conditions, Willow Creek Reservoir will reach 10,000 acre-feet of storage content by sometime in June. Releases to the river will average 7 ft<sup>3</sup>/s between February and April, followed by 24 ft<sup>3</sup>/s during May, 44 ft<sup>3</sup>/s during June, and 36 ft<sup>3</sup>/s in July. As pumping to Granby begins in March or April, the reservoir level is expected to drop in preparation for the spring runoff. Pumping from Willow Creek will continue almost uninterrupted during the spring runoff unless if Granby's reservoir elevation begins to approach its spillway crest level. In such a scenario, any excess inflow to Willow Creek Reservoir will likely be bypassed. However, according to the current most-probable runoff plan those conditions will not materialize in 2009. By the end of the water year the Willow Creek storage content should be approximately 9,000 acre-feet.

# **Granby Reservoir**

If the most-probable runoff conditions prevail for the Granby Reservoir watershed, its reservoir storage content should be approaching a low point of 267,200 acre-feet by the end of April, 2009. Assuming those conditions for the coming spring runoff season along with the forecasted end-of-April storage content, Granby should reach its maximum content for the year by the end of July. A maximum water surface elevation of 8265.71 feet is expected for late July, with a water content of 440,500 acre-feet. That elevation is 15 feet below Granby's maximum operating elevation of 8279.50 feet.

Under the most-probable plan there will not be a spill at Granby Reservoir this water year. Given that fact, Granby will not be able to participate in the Coordinated Reservoir Operations during the spring of 2009. By September 30<sup>th</sup> Granby's reservoir content is expected to drop to 423,700 acre-feet.

## East Slope - Colorado-Big Thompson Project

If climatic conditions produce a most-probable runoff event during water year 2009, irrigation, municipal and industrial demands on C-BT water totaling 233,600 acre-feet should be expected. This includes water from Horsetooth and Carter Lake as well as the trifurcation and other sections of the C-BT conveyance system.

Flow to Horsetooth Reservoir began in October 2008, as municipal demands for C-BT intensified and releases through the Charles Hansen Supply Canal increased. Flow was significantly reduced in November due outages and maintenance work at several project facilities. Some flow resumed in December, however it was significantly lower than October since at that point most of the water was being pumped to Carter Lake. With pumping to Carter Lake expected to continue until March or perhaps April, the high flows to Horsetooth will not resume until the spring. Under the most-probable runoff plan the target storage capacity for Horsetooth will be 125,000 acre-feet by the end of April. That is expected to be its highest reservoir content of the year.

Under the most-probable runoff plan Carter Lake is expected to reach its maximum elevation by the end of March. By March 31<sup>st</sup>, its reservoir level is expected to reach 5752.61 feet, with 105,000 acre-feet in storage. Pumping could resume in May, with other possible pumping sessions in June and July.

The Charles Hansen Feeder Canal 930 Section should be entering its maintenance period on April 3<sup>rd</sup>. As the Charles Hansen Feeder Canal 930 Section enters its annual maintenance, any deliveries to Horsetooth will be suspended while pumping to Carter will continue. The annual maintenance on the canal will last at least two weeks. Maintenance on the Charles Hansen Feeder Canal 550 Section will not begin until September. The maintenance on that section of the canal will also last two weeks.

The winter precipitation during water year 2009 has been below average along the Front Range

and eastern plains. Under the most-probable runoff conditions it is unlikely that the C-BT will be in a position to capture any Big Thompson River decree water in 2009. However, in preparation for such eventuality some storage capacity will be reserved at both Horsetooth Reservoir and Carter Lake.

Potential carryover of C-BT water from water year 2008 to water year 2009 was 54,225 acrefeet. Alloties are expected to pay for 50,000 to 51,000 acre-feet out of the total volume available (according to NCWCD figures).

Diversions through Adams Tunnel will be high the entire water year regardless of the type of runoff season. Water will be stored at both Carter Lake Reservoir and Horsetooth Reservoir between winter and late spring. With Adam Tunnel expected to run at near full capacity over most of the water year, skim operations are expected to be limited, especially for the Olympus Tunnel which will be carrying mostly C-BT water. That will limit the tunnel capacity to carry skim water for power generation. Any native inflow to Lake Estes will likely be bypassed to the river below. For that reason the Big Thompson River is expected to run higher than normal this runoff season. The Dille Tunnel will likely be able to catch a significant portion of that extra flow, therefore the Big Thompson Powerplant is expected to be generating near full capacity from late May through July. Even under most-probable runoff conditions it is possible to experience high demands for C-BT water from share holders along the Big Thompson River. The C-BT water deliveries in August and September could keep the plant running at a high generation rate even longer. A total of 59,300 acre-feet could be available for diversion through Dille Tunnel.

This year, with dry condition prevailing over the east slope and high demands for C-BT water being expected, Adams Tunnel will be diverting water most of the year. A total of 242,400 acre feet are expected to be diverted even under the most-probable runoff plan. That is one of the reasons why Granby Reservoir is not expected to fill under such conditions. But despite the anticipated diversions of water from the west slope, sufficient space has been allocated at both Horsetooth and Carter reservoirs to accommodate any possible priority water that could be captured at Olympus Dam and the Dille Tunnel diversion structure.

A quota of 60% for water year 2009 was announced by the NCWCD on October, 2008. Based on that quota, under the most-probable plan, Horsetooth Reservoir is expected to reach a storage content of 125,000 acre-feet by late April or early May. The reservoir level is expected to stay high through May and into June until irrigation and municipal demands begin in early summer. Once the summer arrives the reservoir content should begin to drop faster until reaching approximately 79,000 acre-feet by late September.

Under the most-probable plan demands for C-BT water out of Horsetooth Reservoir are projected to be approximately 109,300 acre-feet in water year 2009, with another 8,000 acre-feet in Windy Gap water. Irrigation, municipal and industrial demands for C-BT water out of Carter are projected to reach 87,400 acre-feet, with another 13,700 acre-feet in Windy Gap water. The combined east slope terminal reservoirs storage (Carter and Horsetooth) by the end of water year 2009 is predicted to be 128,000 acre-feet.

It is expected that targeted reservoir levels for Horsetooth and Carter will be reached in time for

both the water season and the recreation season. It ialso expected that all the water supply, power generation and recreational targets for the water year will be met under the most-probable plan.

## **Reasonable-minimum Inflow Forecast**

## **Green Mountain Reservoir**

Under the reasonable-minimum plan, scheduled releases from Green Mountain Reservoir for power generation, replacement and regulation will target an end-of-the-month storage for Green Mountain on March 31<sup>st</sup> of 75,000 acre-feet. However, this target was achievabled by winter. By the beginning of the start-of-fill, which is expected to occur sometime between April and early May, releases will be held at or near in order to catch and store the maximum volume of inflow possible. A complete fill can not be achieved under the reasonable-minimum plan. That minimum required flow of 60 ft<sup>3</sup>/s will likely continue until the end of June.

Green Mountain Reservoir maximum storage content for the year will fall short of its physical maximum capacity by 53,000 acre-feet. Under such conditions Green Mountain will not be able to participate in the Coordinated Reservoir Operations the spring of 2009. But given the higher-than-average snowpack observed this winter over the west slope, and assuming that wet conditions continue to prevail during the spring, a reasonable-minimum runoff occurrence seems unlikely. Any reservoir releases in July, August, and September will be made in order to replace C-BT depletions and to meet any Historic Users Pool demands.

Under the reasonable-minimum plan, it is estimated that depletions from the Blue River by the cities of Colorado Springs and Denver could reach 83,400 acre-feet during water year 2009. Based on those predictions, such depletions could cost the Green Mountain Powerplant approximately 17.5 GWh (83,400 acre-feet \* 0.21 GWh/acre-feet) in power interference. However, the projected Blue River depletions reflect forecasted upstream operations for the water year 2009 which will likely change as the spring and summer seasons progress.

#### Willow Creek Reservoir

If reasonable-minimum runoff develops, Willow Creek Reservoir will reach the storage content of 10,000 acre-feet by the end of June. All water in excess of downstream requirements will be pumped to Granby Reservoir, totaling 15,500 acre-feet between April and September. The reservoir is expected to end the water year with a storage content of 9,000 acre-feet.

#### **Granby Reservoir**

Under the reasonable-minimum runoff conditions, water content in Granby Reservoir should drop down to 266,700 acre-feet by the end of April. If dry conditions prevail during the spring and summer, low inflows should be expected along with high demands for C-BT water from the east slope. Under those conditions Granby Reservoir should reach a storage content of only 332,000 acre-feet by the end of June.

The C-BT quota announced by the NCWCD last fall was 60%. Under a reasonable-minimum plan it would be safe to assume that the quota could likely be increased in the spring due to possible low snowpack. Diversions through Adams Tunnel for the water year would be expected to be high the entire water year.

The low inflow expected under the reasonable-minimum runoff conditions, combined with the high diversions will keep Granby from reaching a high water surface level this summer. The volume of 322,000 acre-feet would be 123,400 acre-feet below the 30-year average for the month of June. Adams Tunnel diversions for the water year could reach over 278,000 acre-feet. By September 30<sup>th</sup> carryover storage of 271,700 acre-feet is expected under such conditions.

# **East Slope - Colorado-Big Thompson Project**

If climatic conditions produce the reasonable-minimum runoff during water year 2009, irrigation, municipal and industrial demands for C-BT water totaling 269,300 acre-feet should be expected.

Flow to Horsetooth Reservoir began in October 2008, as municipal demands for C-BT intensified and releases through the Charles Hansen Supply Canal increased. Flow was significantly reduced in November due to outages and maintenance work at several project facilities. Some flow resumed in December, however it was significantly lower than October. By then most of the water was being pumped to Carter Lake. Since pumping to Carter Lake is expected to continue until March or perhaps April, the high flows to Horsetooth will not resume until then. Under the reasonable-minimum runoff plan the target storage capacity for Horsetooth will be 125,000 acre-feet by the end of May. That is expected to be its highest reservoir content of the water year 2009.

Under the reasonable-minimum runoff plan Carter Lake is expected to reach its maximum elevation by March. By March 31<sup>st</sup>, its reservoir level is expected to reach 5752.61 feet, with 105,000 acre-feet in storage. Pumping could resume in May, with other possible pumping operations in June and July.

The Charles Hansen Feeder Canal 930 Section should be entering its maintenance period in early April. As the Charles Hansen Feeder Canal 930 Section enters its annual maintenance, any deliveries to Horsetooth will be suspended, however pumping to Carter will continue. The annual maintenance on the canal will last at least two weeks. Maintenance on the Charles Hansen Feeder Canal 550 Section will not begin until September. The maintenance on that section of the canal will also last two weeks.

The winter precipitation during water year 2009 has been below average along the Front Range and eastern plains. Under the reasonable-minimum runoff plan it is unlikely that the C-BT will be in a position to capture any Big Thompson River decree water in 2009. However, in preparation for such eventuality some storage capacity will be reserved at both Horsetooth Reservoir and Carter Lake.

Potential carryover of C-BT water from water year 2008 to water year 2009 was 54,225 acrefeet. Alloties are expected to pay for 50,000 to 51,000 acre-feet out of the total volume available (according to NCWCD figures).

Regardless of which plan materializes this coming spring and summer, the Adams Tunnel diversions are expected to be high the entire water year. Water will be stored at both Carter Lake Reservoir and Horsetooth Reservoir between winter and late spring. With Adam Tunnel expected to run at near full capacity over most of the water year, skim operations are expected to be limited. Olympus Tunnel will be carrying C-BT water through the spring and summer months. That will limit the tunnel capacity to carry skim water for power generation. Any native inflow to Lake Estes will likely be bypassed and release to the river below. For that reason the Big Thompson River is expected to run higher than normal this runoff season. The Dille Tunnel will likely be able to catch a significant portion of that extra flow. Under reasonable-minimum runoff conditions it is possible to experience high demands for C-BT water from share holders along the Big Thompson River. The C-BT water deliveries in August and September could keep the Big Thompson Powerplant running at a high generation rate even longer. A total of 46,300 acre-feet could be available for diversion through Dille Tunnel.

Granby Reservoir is not expected to fill under reasonable-minimum plan. This year, given the dry condition prevailing over the east slope and the expected high demands for C-BT water, Adams Tunnel is expected to be diverting water most of the year. A total of 278,200 acre feet are expected to be diverted under the reasonable-minimum runoff plan. But despite the large volume of water to be diverted for the west slope, sufficient space has been allocated at both Horsetooth and Carter reservoirs to accommodate any unanticipated priority water captured at Olympus Dam and the Dille Tunnel diversion structure.

A quota of 60% for water year 2009 was announced by the NCWCD on October, 2008. Based on that quota, under the reasonable-minimum runoff plan, Horsetooth Reservoir is expected to reach a storage content of 125,000 acre-feet by May. The reservoir level is expected to stay high through May and into June, until irrigation and municipal demands begin. The reservoir storage content should then drop slowly until reaching approximately 79,000 acre-feet by late September. Under the reasonable-minimum plan, demands for C-BT water out of Horsetooth Reservoir are projected to be approximately 126,000 acre-feet in water year 2009, which includes 8,000 acre-feet in Windy Gap water. Irrigation, municipal and industrial demands for C-BT water out of Carter are projected to reach 101,100 acre-feet, which includes 13,500 acre-feet in Windy Gap water. According to this plan the combined east slope terminal reservoirs storage (Carter and Horsetooth) is predicted to be 128,000 acre-feet by the end of water year 2009.

## Reasonable-maximum Inflow Forecast

# **Green Mountain Reservoir**

Under the reasonable-maximum plan, scheduled releases from Green Mountain Reservoir for power generation, replacement and regulation will target an end-of-the-month storage for Green Mountain on March 31<sup>st</sup> of 75,000 acre-feet. However, this target was achievabled by winter. By the beginning of the start-of-fill, which is expected to occur sometime between April and early May, releases will be held at or near 60 ft<sup>3</sup>/s in order to catch and store the maximum volume of inflow possible. A complete fill could be achieved under the reasonable-maximum plan. That minimum required flow will likely continue until the end of June.

Since Green Mountain Reservoir will likely reach its maximum operational capacity under the reasonable-maximum runoff forecast by sometime in July the releases will have to be increased at some point to bypass any excess inflow. Reservoir releases could be expected to be significantly high under those circumstances. If by the spring it becomes obvious that the reasonable-maximum runoff year is possible, Green Mountain will likely participate in the Coordinated Reservoir Operations of 2009. Given the higher-than-average snowpack this winter over the west slope, and assuming that wet conditions could continue to dominate the weather during the spring, there is a chance that a reasonable-maximum plan could develop this year. Any reservoir releases in July, August, and September will be made in order to replace C-BT depletions, bypass excess inflow and to meet any Historic Users Pool demands.

Under the reasonable-maximum plan, it is estimated that depletions from the Blue River by the cities of Colorado Springs and Denver could reach 68,000 acre-feet during water year 2009. Based on those predictions, such depletions could cost the Green Mountain Powerplant approximately 14.2 GWh (68,000 acre-feet \* 0.21 GWh/acre-feet) in power interference. However, the projected Blue River depletions reflect forecasted upstream operations for the water year 2009 which will likely change as the spring and summer seasons progress.

## **Willow Creek Reservoir**

If reasonable-maximum runoff develops in 2009, Willow Creek Reservoir will reach the storage content of 10,200 acre-feet by June. Inflow in excess of downstream flow requirements will be pumped to Granby Reservoir, up to a maximum of 450 ft<sup>3</sup>/s. A total of 69,300 acre-feet could be pumped to Granby before the end of the water year. Any excess inflow will have to be released downstream. The reservoir is expected to end the water year with a storage content of 9,000 acre-feet.

# **Granby Reservoir**

Under reasonable-maximum runoff conditions, water content in Granby Reservoir should drop down to 275,000 acre-feet by the end of March. If wet conditions prevail during the spring and summer, high inflows should be expected, along with potential lower demands for C-BT water from the east slope. Under those conditions Granby Reservoir should reach a storage content of

only 527,400 acre-feet by August, 2009.

The C-BT quota announced by the NCWCD last fall was 60%. Under a reasonable-maximum runoff plan the quota could remain unchanged throughout the water season. Despite the possible high runoff year, diversions through Adams Tunnel are expected to remain high the entire year.

Even with high diversions through Adams Tunnel all year, under maximum reasonable runoff condition the content volume of Granby could rise enough to reach a content just 12,400 acrefeet short of its maximum capacity. The peak content could be reached by August. The Adams Tunnel diversions for the water year could reach as much as 228,200 acre-feet under the maximum-reasonable runoff plan. If such conditions prevail, by September 30<sup>th</sup> a carryover storage of 525,700 acre-feet would be expected.

# East Slope - Colorado-Big Thompson Project

If climatic conditions produce the reasonable-maximum runoff event during water year 2009, irrigation, municipal and industrial demands for C-BT water totaling 208,000 acre-feet could be expected.

Flow to Horsetooth Reservoir began in October 2008, as municipal demands for C-BT intensified and releases through the Charles Hansen Supply Canal increased. Flow was significantly reduced in November due to outages and maintenance work at several project facilities. Some flow resumed in December, however it was significantly lower than October. By then most of the water was being pumped to Carter Lake. Since pumping to Carter Lake is expected to continue until March or perhaps April, the high flows to Horsetooth will not resume until then. Under the reasonable-maximum runoff plan the target storage capacity for Horsetooth will be 125,000 acre-feet by the end of May. That is expected to be its highest reservoir content of the water year 2009.

Under the reasonable-maximum runoff plan Carter Lake is expected to reach its maximum elevation by late March. By March 31<sup>st</sup>, its reservoir level is expected to reach 5752.61 feet, with 105,000 acre-feet in storage. Pumping could resume in May, with more pumping taking place perhaps in June and July.

The Charles Hansen Feeder Canal 930 Section should be entering its maintenance period in early April. As the Charles Hansen Feeder Canal 930 Section enters its annual maintenance, any deliveries to Horsetooth will be suspended while pumping to Carter will continue. The annual maintenance on the canal will last at least two weeks. Maintenance on the Charles Hansen Feeder Canal 550 Section will not begin until September. The maintenance on that section of the canal will also last two weeks.

The winter precipitation during water year 2009 has been below average along the Front Range and eastern plains. Even under the reasonable-maximum runoff plan it is unlikely that the C-BT will be in a position to capture any Big Thompson River decree water in 2009. However, in preparation for such eventuality some storage capacity will be reserved at both Horsetooth

Reservoir and Carter Lake.

Potential carryover of C-BT water from water year 2008 to water year 2009 was 54,225 acrefeet. Alloties are expected to pay for 50,000 to 51,000 acre-feet out of the total volume available (according to NCWCD figures).

Regardless of which plan materializes this coming spring and summer, the Adams Tunnel diversions are expected to be high the entire water year. Water will be stored at both Carter Lake Reservoir and Horsetooth Reservoir between winter and late spring. With Adam Tunnel expected to run at near full capacity over most of the water year, skim operations are expected to be limited. Olympus Tunnel will be carrying C-BT water through the spring and summer months. That will limit the tunnel capacity to carry skim water for power generation. Any native inflow to Lake Estes will likely be bypassed and release to the river below. For that reason the Big Thompson River is expected to run higher than normal this runoff season. The Dille Tunnel will likely be able to catch a significant portion of that extra flow. Under reasonable-maximum runoff conditions we are likely to experience lower demands for C-BT water from share holders along the Big Thompson River. The runoff flows during May and July could keep the Big Thompson Powerplant running at a high generation rate. As much as 46,100 acre-feet could be available for diversion through Dille Tunnel this year.

This year, given the dry condition prevailing over the east slope, it is not likely that reasonable-maximum runoff condition will occur across the Big Thompson River watershed. For that reason Demands for C-BT water are expected to be high. But even if the reasonable-maximum runoff conditions develop during the spring and summer, given the behind-schedule current storage content at Carter and Horsetooth (combined storages), Adams Tunnel will likely continue diverting high volumes of water from the west most of the year. A total of 228,700 acre feet are expected to be diverted under the reasonable-maximum runoff plan. That is one of the reasons why Granby Reservoir is not expected to fill under such plan. Despite the anticipated high diversions of water from the west slope, sufficient space has been allocated at both Horsetooth and Carter reservoirs to accommodate any unanticipated priority water captured at Olympus Dam and the Dille Tunnel diversion structure.

A quota of 60% for water year 2009 was announced by the NCWCD on October, 2008. Under the reasonable-maximum runoff plan demands for C-BT water out of Horsetooth Reservoir are projected to be approximately 96,000 acre-feet in water year 2009, including 8,000 acre-feet in Windy Gap water. Irrigation, municipal and industrial demands for C-BT water out of Carter are projected to reach 79,000 acre-feet, including 13,500 acre-feet in Windy Gap water. According to this plan the combined east slope terminal reservoirs storage (Carter and Horsetooth) is predicted to be 140,000 acre-feet by the end of water year 2009.

# **IRRIGATION REQUIREMENTS**

The amount of water to be made available to the C-BT for irrigation will be determined by NCWCD. This determination will be subject to change by agreement throughout the remainder of the irrigation season. Changes may occur due to substantial changes in the prevailing conditions. Estimation of the irrigation requirements for the three inflow conditions was determined by analyzing actual use in similar runoff years.

Estimated supplemental irrigation deliveries from Green Mountain Reservoir to irrigators in the Colorado River Basin are included in the release from Green Mountain Reservoir, according to the "Operating Criteria for Green Mountain Reservoir."

#### MINIMUM REQUIRED RESERVOIR RELEASES

On January 19, 1961, the Secretary of the Interior etablished specific guidelines for water releases out of Lake Granby, which satisfy fish require ments. A release from Lake Granby of 20 ft <sup>3</sup>/s is required from October through April of each year. During the remaining months of the year, the control point is almost 3 miles downstream from the dam at the YMCA gauging station.

Except in years of subnormal inflow, a flow of 75 ft<sup>3</sup>/s during the May-July period, 40 ft<sup>3</sup>/s during August, and 20 ft<sup>3</sup>/s during September is required at thislocation, downstream of Lake Granby. The flow during the May-September period can be reducedif forecasts indicate that the inflow during the water year to Shadow Mountain Lake, Grand Lake, and Lake Granby (less the decreed rights in the reach of the Colorado River between Granby Damand the mouth of the Fraser River) and the water capable of being pumped from Willow Creek Reservoir during that year, are 230,000 acre-feet or less.

According to the 'Principles to Govern the Rel ease of Water at Granby Dam to Provide Fishery Flows immediately Downstream in the Colorado River" signed by the Secretary of the Interior and Commissioner of the Bureau of Reclamation in 1961, the following reduction offishery flows below Lake Granby will apply on the basis of a forecast tobe made by the Bureau of Reclamation during the last week in April, using information from all available sources.

Forecast Inflow	Percentage Reduction
in Acre-Feet	in Minimum Release
220,000 - 230,000	15
210,000 - 220,000	20
195,000 - 210,000	25
Less than 195,000	30

Adjustments will be m ade in the reductions, wh en appropriate, based on revised f orecasts and consideration of actual flows during May, June, and July. A copy of the document is included in the Standard Operating Procedures for Granby Dams and Reservoir, Appendix A, Exhibit 4.

Also according to the sam e guidelines, W illow Creek below W illow Creek Reservoir is not considered a fishery resource since an irrigation of the a short distance below the dam generally uses the entire flow in the late sum mer months. In the Secretarial determination, no releases were provided to maintain Willow Creek as a live stream. However, a release of  $7 \text{ f t}^3/\text{s}$  or inflow (whichever is the lesser) from Willow Creek Reservoir is required between October  $1^{\text{st}}$  and April  $30^{\text{th}}$  to augment fishery flows in the Colorado River.

In accordance with the Standard Operating Procedures for Shadow Mountain Reservoir, Chapter 4, Section D, m inimum releases from Shadow Mountain Lake of 35 ft <sup>3</sup>/s during Septem ber and October, 45 ft<sup>3</sup>/s during November and December, 20 ft<sup>3</sup>/s from January through May, 50 ft<sup>3</sup>/s in June and July, and 40 ft<sup>3</sup>/s in August or inflow (whichever isthe lesser) must be maintained in order to protect fish and wildlife in the Colorado River above Lake Granby

The minimum release required out of Green Mountain Reservoir is controlled by senior adjudicated water rights downstream from the reservoir. Inflow to Green Mountain Reservoir is released, as required, to meet these downstream rights. Releases at all times are adequate for fish preservation.

The State of Colorado's Division of Wildlife, and the United States Fish and Wildlife Service have recommended the following water release schedule for Lake Estes. This schedule meets the flow requirements of native fish along the Big Thompson River.

#### Minimum Releases

November 1 - April 15
April 16 - April 30
May 1 - May 15
May 16 - August 15
August 16 - August 31
September 1 - September 15
September 16 - October 31

Diversion of flows from the Big Thompson River at Lake Estes for power production is generally restricted to the May 15-September 15 period, since runoff during the remaining period usually is much less than the recommended minimum flows. Releases in excess of inflows are not required.

#### **GREEN MOUNTAIN RESERVOIR OPERATIONS**

Paragraph 6 of the October 5, 1955, Stipulation, in the decree for the Consolidated Cases Nos. 2782, 5016, and 5017 in the United States District Court for the District of Colorado (Blue River Decree), calls for periodic plans for the operation of GreenMountain Reservoir to be developed. The plans addressing this requirement are included as a part of this report.

Provisions guiding the operations of Green Mount ain Reservoir are contained in the following documents:

Manner of Operation of Project Facilities and Auxiliary Features, Senate Document No. 80, 75th Congress, 1st Session

Consolidated Cases Nos. 2782, 5016, and 5017 October 12, 1955, Stipulation and Decree April 16, 1964, Stipulation and Decree

Operating Policy for Green Mountain Reservoir, Colorado-Big Thompson Project, published in the Federal Register, Vol. 48, No. 247, December 22, 1983,

September 4, 1996, Stipulation and Agreement in Colorado Water Div. 5, Case No. 91CW247 (Orchard Mesa Check Case), and attached HUP Operating Criteria.

Operations will be consistent with the applicable provisions in these documents.

## The general operations guided by these provisions are given below:

- 1. Winter operation (November-March)
  - a. Bypass inflow to supply downstream vested senior rights.
  - b. Make releases to replace water diverted or stored out of priority by the C-BT collection system, as required.
  - c. Make releases for west slope irrigation and domestic uses per Green Mountain Operating Policy and the HUP Operating Criteria.
  - d. Make releases for water service contracts pursuant to the Operating Policy.
  - e. Maximize power generation, while maintaining:
    - (1) Adequate storage to meet the anticipated needs under the guiding documents.
    - (2) A minimum power head consistent with the integrated system power operations.

## 2. Operation during snowmelt period (April-July)

- a. Bypass inflow to supply downstream vested senior rights.
- b. Make releases to replace water diverted or stored out of priority by the C-BT collection system, as required.
- c. Make releases for west slope irrigation and domestic uses per Green Mountain Operating Policy and the HUP Operating Criteria.
- d. Make releases for water service contracts pursuant to the Operating Policy.
- e. Participate in the Coordinated Reservoir Operations effort to enhance peak flows for the Colorado River Endangered Fishes. Reduce releases from traditional levels before and after the peak flow period on the Colorado River in the Grand Junction area. During peak flow period, release the lesser of inflows or turbine capacity for approximately a ten-day period.
- f. Fill without spilling to maximize power generation by utilizing the storage and power rights concurrently.
- g. On or before June 30, each year, meet with Managing Entities established under the settlement of the Orchard Mesa Check Case to assess availability of surplus water in the Historic Users Pool (HUP).
  - Confer with Managing Entities on a regular basis through the irrigation season to assess availability of surplus water in the Historic Users Pool (HUP).
  - If a surplus condition is declared, make releases up to the amount of surplus, under agreements, to:
    - the Grand Valley Powerplant up to its need or capacity; then to
    - the Grand Valley under the Municipal Recreation contract in excess of that needed by the powerplant
- j. Maximize power operation consistent with 1.e.
- k. Make releases as outlined in the above referenced documents.

## 3. Operation after snowmelt period (August-October)

a. Bypass inflow to supply downstream vested senior rights.

<sup>1</sup> By the use of these provisions for current operating purposes, the United States does not intend to imply any definition of rights and obligations. The order in which these criteria are listed does

- b. Make releases to replace water diverted or stored out of priority by the C-BT collection system, as required.
- c. Make releases for west slope irrigation and domestic uses per Green Mountain Operating Policy and the HUP Operating Criteria.
- d. Make releases for water service contracts pursuant to the Operating Policy.
- g. Confer with Managing Entities on a regular basis through the irrigation season to assess availability of surplus water in the Historic Users Pool (HUP).
  - If a surplus condition is declared, make releases up to the amount of surplus, under agreements, to:
    - the Grand Valley Powerplant up to its need or capacity; then to
    - the Grand Valley under the Municipal Recreation contract in excess of that needed by the powerplant
- j. Maximize power operation consistent with 1.e.
- k. Make releases as outlined in the above referenced documents.

<sup>&</sup>lt;sup>1</sup> By the use of these criteria for current operating purposes, the United States does not intend to imply any definition of rights and obligations. The order in which these criteria are listed does not reflect any intended priority.

By the use of these provisions for current operating purposes, the United States does not intend to imply any definition of rights and obligations. The order in which these criteria are listed does not reflect any intended priority.

# GREEN MOUNTAIN HISTORIC USERS POOL AND THE ORCHARD MESA CHECK CASE SETTLEMENT

## **Background and Authority**

The Orchard Mesa Check (Check) is a structure below the common afterbay of the Orchard Mesa Irrigation District (OMID) Pumping Plant and the federal Grand Valley PowerPlant in the Grand Valley of Colorado. The operation of the Check provides the ability to raise the water level in the common afterbay to a level, which causes water to flow through the bypass channel and return to the Colorado River upstream of the Grand Valley Irrigation Company (GVIC) diversion dam.

Operation of the Check was determined to constitute an 'exchange' of water whereby water destined for the senior GVIC irrigation—water rights is borrowed for pum—ping and hydroelectric power generation purposes and returned to GVIC for irrigation use. Operation of the Check influences the supply of water available to Grand Valley irrigation systems; to the Grand Valley PowerPlant for power production; Green Mountain Reservoir releases; and the flow in the 15-Mile Reach of the Colorado River. The 15-Mile Reach is that section of the Colorado River from GVIC diversion dam to the confluence of the Gunnison River andhas been designated critical habitat by the Upper Colorado River Endangered Fish Recovery Program.

The Check has been operated on an informal basis without a decreed right since approximately 1926 to manage flows in the Colorado River for the benefit of the United States, Grand Valley W ater Users Association (GVW UA), and OMID (Co-applicants). In the late 1980' s, a hydropower development was proposed in a reach of the Colorado River between the Grand Valley Diversion Dam, the point where the exchange water is diverted, and the GVIC diversion dam where the exchange water is returned. The Co-applicants were concerned that a water right awarded for this development would have the ability to interfere with the exchange of water. In response to this potential threat to the continued operation of the exhange, the Co-applicants filed an application in State Water Court on December 30, 1991, for approval of an exchange of water. This case (Water Division 5, Case No. 91CW 247) was inform ally known as the Orchard Mesa Check Case. Resolution of the case resulted in a negotiated Stipulation and Agreement entered into the District Court, Water Division No. 5, State of Colorado, on September 4, 1996.

## **Overview of the Stipulated Settlement**

The settlement contains two m ajor components: the Stipulation and Agreem ent and the Green Mountain Reservoir Historic Users Pool Operating Criteria (Operating Criteria). The Operating Criteria further defines operation of the Green Mountain Reservoir Historic Users Pool (HUP) consistent with Senate Document 80 and the 1984 Operating Policy. The parts of the Stipulation and Agreement pertinent to the operation of the HUP are summarized below:

As part of the Stipulation and Agreement the Co-applicants and GVIC agree not to exercise their irrigation rights against any upstream HUP benefi ciary provided that the Check is physically operable; there is at least 66,000 acre-feet of water in storage in the Green Mountain Reservoir HUP,

or approved substitute storage reservoir, when Geen Mountain Reservoir storage rights cease to be in priority; and the water rights for the Shoshone PowerPlant continue to be exercised in a nanner consistent with their historical operation. (Section 3.b. of the Stipulation and Agreement)

The Stipulation and Agreement also provides that Reclamation will declare surplus water which is in excess of the needs of HUP beneficiaries for a given water year. Water declared surplus might be delivered through agreem ents to beneficial uses in Western Colorado. This is to be done in accordance with the provisions of the HUP Operating Criteria, which are summarized below:

## Management of the HUP Under the Operating Criteria

The management of the HUP is accomplished through the process defined in Sections 3.d. and 3.e. of the Operating Criteria. This process require s the development of this Annual HUP Operating Plan on or before June 30 of each year.

The Annual HUP Operating Plan is developed by the Bureau of Reclamation, in consultation with the Grand Valley Water Users Association, the Orchard Mesa Irrigation District, the Grand Valley Irrigation Company, the Division 5 Engineer, the Colorado Water Conservation Board and, Fish and Wildlife Service. These entities are collectively known as the 'Managing Entities'. The Managing Entities agree to make a good faith effort to develop an Annual HUP Operating Plan that is unanimously supported. However, the Bureau of Reclamation reserves the rightto establish a release schedule, should unanimous consent be unattainable.

The Annual HUP Operating Plan is based upon act ual HUP storage conditions; projected runoff forecasts; operational and clim atological conditions; projected irrigation dem ands; and, 15-Mile Reach flow needs. It is expresly recognized, however, that in some years, release of the entire HUP by the end of the irrigation season will not be necessary or possible.

On or before June 30 of each year, the Bureau of Reclamation assembles initial information on storage in the HUP and comparative runoff years. Based upon the information assembled, a meeting is held with the other Managing Entities. During this meeting, a review of the forecasts is analyzed, and initial determinations of the level of "checking" required to preserve water in the HUP, as well as any determination of water surplus to HUP beneficiaries needs are made.

The HUP operations are reviewed and modified by the Managing Entities as necessary to respond to changing conditions. Subsequent meetings or conference calls are held on an as needed basis to reexamine HUP storage conditions, runoff forecasts climatological conditions, irrigation demands, 15-Mile Reach flow needs, and other operationa 1 conditions. Based upon this inform ation, the Managing Entities adjust the checking. They also determine the water surplus for HUP beneficiary needs, as well as the release of such water. Du ring periods of below average river flows, review meetings or conference calls may be held as frequently as every week.

This mechanism provides a way to integrate management of releases from the HUP with operation of the Check to accomplish the purposes of the Operating Criteria. The mechanism is also used to integrate releases from the HUP with releases for the endangered fish from other reservoirs including Ruedi and Wolford Mountain.

## OPERATION SKIM

Big Thompson River water in excess of the minimum requirements, as recommended by the State of Colorado Division of W ildlife and the United States Fish and W ildlife Service, is diverted at Olympus Dam into the Foothills System to be used for power generation. This operation is known as operation "skim." The amount diverted depends on the flow at the Big Thompson River and the tributaries above Lake Estes, C-BT water imported through the Adams Tunnel, and the capacity of the Foothills System.

The water taken from the Big Thompson River can beused for power generation immediately. It can also be held in storage and replaced to the rive r with water from other sections of the system , depending on the power requirements. In general, water taken from the Big Thompson River at a variable rate, on a given date, is returned to the river at a flat rate, on the following day. This operation indirectly benefits the tourist and fishing industries along the Big Thompson Canyon by attenuating and diverting high flows, and by maintaining a steady stream during the runoff season.

Operation "skim" and storage of surplus water from the Big Thompson River in C-BT reservoirs are managed according to the AOP and as prescribed by the ECAO Water Scheduling staff.

During water year 2008 the Adams Tunnel was kept running water at near full capacity which kept the rest of conveyance system also running full. As a result, a large portion of the native inflow to Lake Estes was bypassed and sent down the Big Thompson River during the runoff season. That was the reason why skim operations through Olympus Tunnel were reduced so drastically in 2008 when compared to previous water years. During water year 2007, a total of 33,211 acre-feet of water was diverted through Olympus Tunnel for skim operations. In 2008, only 1,940 acre-feet was diverted for power generations purposes.

Contrary to the situation for the Olympus Tunnel, the Dille Tunnel skim diversions were high in 2008, totaling 28,866 acre-feet. The total could have been much higher, but the Big Thompson Powerplant was not made available until late June. With the Big Thompson Powerplant unavailable, there available runoff was also bypassed. By the time the powerplant became available the peak of the runoff was over.

## Appendix A (Table 1 of 38) Green Mountain Reservoir, CO

Location. --Lat 39°52'42", long 106°19'42", Summit County, Hydrologic Unit 14010002, on Green Mountain Dam, 13 miles southeast of Kremmling, Colorado, on the Blue River.

Gage. –Water level recorder with satellite telemetry. Elevation of gage is 7960 from topographic map.

**Remarks.**-- Inflow computed daily based on change in content from midnight to midnight, and on the 24-hour average releases from Green Mountain Reservoir. Recorders were operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Inflow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	316	247	300	128	134	140	335	905	1632	1729	466	459
2	346	240	261	129	135	154	279	935	1753	1889	486	438
3	339	232	248	127	134	215	301	825	1860	1843	472	438
4	313	240	202	137	144	189	305	796	1945	1795	453	422
5	309	235	198	173	130	195	287	816	1784	1762	438	385
6	307	239	190	174	136	200	299	875	1640	1708	434	361
7	295	240	196	150	148	180	298	978	1420	1772	429	332
8	292	246	174	143	120	194	325	1069	1412	1750	443	353
9	286	238	160	151	141	195	285	1209	1530	1639	461	317
10	288	236	151	137	128	193	299	1098	1298	1526	437	303
11	292	236	151	138	136	196	328	1119	1246	1384	446	296
12	292	237	132	137	135	190	292	981	1449	1363	483	372
13	305	237	140	137	136	209	285	1005	1207	1275	426	493
14	365	240	133	138	164	202	294	1090	1095	1213	391	367
15	336	260	125	129	135	214	317	992	1157	1100	370	356
16	319	290	149	137	128	185	433	979	1358	1050	324	349
17	336	357	127	125	136	204	551	930	1447	1073	461	333
18	328	355	148	141	129	197	614	947	1417	963	479	330
19	317	349	147	133	131	199	610	1044	1353	946	453	352
20	317	340	133	135	132	201	672	1265	1351	885	468	340
21	307	369	156	135	138	250	715	1622	1344	884	502	356
22	260	383	140	149	139	270	730	1967	1288	809	514	372
23	267	403	133	132	145	270	750	2113	1280	851	493	337
24	275	391	142	140	145	261	803	1795	1180	810	494	339
25	251	398	156	140	138	276	841	1630	1196	859	482	350
26	254	381	134	133	144	275	805	1555	1209	747	493	331
27	238	338	157	134	138	285	757	1553	1279	653	515	307
28	241	295	130	168	140	285	739	1663	1326	625	479	297
29	225	271	137	120		280	777	1777	1327	546	464	286
30	215	277	139	127		293	838	1814	1502	558	463	289
31	234		124	125		300		1636		498	449	
Min	215	232	124	120	120	140	279	796	1095	498	324	286
Max	365	403	300	174	164	300	841	2113	1945	1889	515	493
Mean	292	293	162	139	137	222	505	1258	1410	1178	457	355
ac-ft	17949	17424	9926	8518	7601	13656	30025	77186	83724	72280	28053	21107



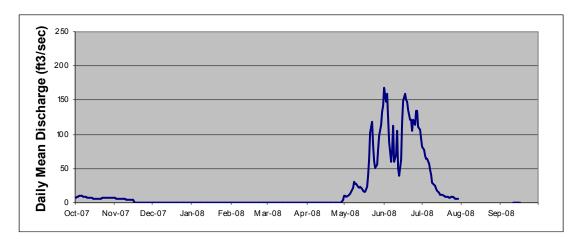
#### Appendix A (Table 2 of 38) Elliot Creek Canal near Green Mountain Reservoir, CO

Location. --Lat 39°52'25", long 106°19'49", Summit County, Hydrologic Unit 14010002, on left bank at concrete flume structure, and 1.1 mi west of Heeney.

Gage.--Water-stage recorder with satellite telemetry. Elevation of gage is 8050 ft from topographic map.

**Remarks.**—This is a diversion from Elliot Creek in the Blue River Basin to Green Mountain Reservoir. Recorder was operated 01-October-2007 through 31-July-2008. At that point data logger was lost. Maximum daily average discharge 168 cfs, 02-Jun-2008. Records are incomplete and only reliable until the end of July. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7	7	0	0	0	0	0	10	142	94	N/A	N/A
2	8	7	0	0	0	0	0	10	168	82	N/A	N/A
3	9	6	0	0	0	0	0	9	148	77	N/A	N/A
4	11	6	0	0	0	0	0	10	159	69	N/A	N/A
5	10	6	0	0	0	0	0	12	124	64	N/A	N/A
6	10	6	0	0	0	0	0	13	89	65	N/A	N/A
7	9	6	0	0	0	0	0	16	60	58	N/A	N/A
8	9	5	0	0	0	0	0	21	76	49	N/A	N/A
9	8	5	0	0	0	0	0	31	113	41	N/A	N/A
10	8	5	0	0	0	0	0	28	60	29	N/A	N/A
11	8	5	0	0	0	0	0	28	70	26	N/A	N/A
12	7	5	0	0	0	0	0	24	105	25	N/A	0
13	7	5	0	0	0	0	0	22	52	20	N/A	0
14	7	5	0	0	0	0	0	23	39	18	N/A	0
15	7	5	0	0	0	0	0	20	63	14	N/A	0
16	6	2	0	0	0	0	0	18	116	12	N/A	0
17	6	0	0	0	0	0	0	16	149	12	N/A	0
18	6	0	0	0	0	0	0	17	160	11	N/A	N/A
19	6	0	0	0	0	0	0	23	151	10	N/A	N/A
20	6	0	0	0	0	0	0	40	147	9	N/A	N/A
21	7	0	0	0	0	0	0	64	135	9	N/A	N/A
22	7	0	0	0	0	0	0	103	122	9	0	N/A
23	7	0	0	0	0	0	0	118	122	8	N/A	N/A
24	7	0	0	0	0	0	0	84	106	8	N/A	N/A
25	7	0	0	0	0	0	0	62	121	8	N/A	N/A
26	7	0	0	0	0	0	0	51	114	9	N/A	N/A
27	7	0	0	0	0	0	0	56	135	7	N/A	N/A
28	7	0	0	0	0	0	0	77	134	6	N/A	N/A
29	7	0	0	0		0	0	99	111	6	N/A	N/A
30	7	0	0	0		0	4	113	106	6	N/A	N/A
31	7		0	0		0		134		N/A	N/A	
Min	6	0	0	0	0	0	0	9	39	6	N/A	N/A
Max	11	7	0	0	0	0	4	134	168	94	N/A	N/A
Mean	7	3	0	0	0	0	0	44	113	29	N/A	N/A
ac-ft	455	169	0	0	0	0	8	2676	6724	1705	N/A	N/A



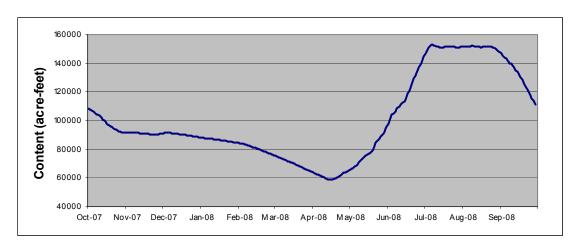
## Appendix A (Table 3 of 38) Green Mountain Reservoir, CO

Location. --Lat 39°52'42", long 106°19'42", Summit County, Hydrologic Unit 14010002, on Green Mountain Dam, 13 miles southeast of Kremmling, Colorado, on the Blue River..

Gage. –Water level recorder with satellite telemetry. Elevation of gage is 7960 from topographic map.

**Remarks.**—Reservoir is formed by an earth-fill dam. Construction completed in 1943. Impoundment began on 16-Nov-1942. Green Mountain Reservoir provides storage for replacement water for the Colorado-Big Thompson Project. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Maximum capacity is 153,639 acre-feet at elevation 7950.00 ft, with 146,779 acre-feet of active capacity. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	108,342	91,658	91,190	88,160	84,206	75,649	64,124	65,352	95,937	144,356	151,440	147,269
2	107,856	91,629	91,307	88,017	84,026	75,279	63,706	65,995	97,816	146,528	151,566	146,446
3	107,357	91,585	91,395	87,861	83,846	75,011	63,327	66,425	99,895	148,078	151,651	145,623
4	106,809	91,556	91,395	87,733	83,654	74,654	62,948	66,797	102,159	149,449	151,736	144,845
5	106,246	91,512	91,380	87,677	83,408	74,287	62,526	67,228	104,024	150,707	151,799	144,050
6	105,688	91,483	91,351	87,620	83,175	73,934	62,130	67,783	105,130	151,841	151,841	143,134
7	105,114	91,453	91,336	87,521	82,943	73,544	61,735	68,529	105,590	152,687	151,905	142,043
8	104,510	91,439	91,278	87,408	82,628	73,180	61,396	69,461	106,032	152,708	151,968	140,975
9	103,911	91,395	91,190	87,309	82,355	72,819	60,974	70,661	108,039	152,412	152,074	140,114
10	103,295	91,336	91,087	87,182	82,057	72,470	60,584	71,641	109,082	151,989	151,989	139,513
11	102,702	91,307	90,985	87,054	81,774	72,109	60,262	72,657	109,978	151,566	151,884	138,698
12	101,903	91,278	90,839	86,927	81,490	71,740	59,867	73,405	111,273	151,545	151,841	137,449
13	100,920	91,234	90,708	86,800	81,179	71,408	59,461	74,186	112,117	151,356	151,672	136,445
14	100,053	91,146	90,563	86,672	80,910	71,064	59,071	75,138	112,720	151,084	151,482	135,208
15	99,133	90,999	90,404	86,531	80,589	70,745	58,734	75,815	113,449	150,958	151,293	133,963
16	98,185	90,868	90,288	86,405	80,255	70,369	58,619	76,331	114,757	151,021	151,084	132,665
17	97,340	90,853	90,129	86,251	79,934	70,030	58,745	76,770	116,539	151,252	151,189	131,336
18	96,711	90,752	90,013	86,125	79,601	69,678	58,987	77,250	118,609	151,461	151,335	129,845
19	96,134	90,650	89,897	85,985	79,271	69,330	59,218	77,929	120,706	151,630	151,419	128,271
20	95,542	90,534	89,753	85,846	78,914	68,947	59,568	78,993	122,919	151,651	151,545	126,652
21	94,939	90,477	89,651	85,706	78,544	68,552	60,006	80,495	125,139	151,672	151,714	125,083
22	94,384	90,448	89,521	85,594	78,177	68,149	60,454	82,368	127,252	151,566	151,736	123,563
23	93,889	90,462	89,376	85,454	77,824	67,724	60,963	84,358	129,350	151,545	151,609	121,963
24	93,429	90,448	89,248	85,328	77,472	67,275	61,581	85,720	131,278	151,461	151,482	120,378
25	92,925	90,448	89,147	85,202	77,106	66,843	62,273	86,743	133,224	151,482	151,335	118,808
26	92,480	90,477	89,004	85,063	76,744	66,402	62,881	87,606	135,189	151,314	151,210	117,198
27	92,083	90,578	88,904	84,925	76,370	66,007	63,394	88,518	137,113	151,000	150,979	115,550
28	91,878	90,723	88,747	84,856	76,009	65,605	63,875	89,651	138,757	150,874	150,476	114,024
29	91,805	90,853	88,604	84,704		65,191	64,294	90,985	140,334	150,895	149,680	112,513
30	91,717	90,999	88,461	84,565		64,803	64,757	92,673	142,245	151,147	148,888	111,034
31	91,673		88,303	84,386		64,429		94,294		151,335	148,057	
Min	91,673	90,448	88,303	84,386	76,009	64,429	58,619	65,352	95,937	144,356	148,057	111,034
Max	108,342	91,658	91,395	88,160	84,206	75,649	64,757	94,294	142,245	152,708	152,074	147,269
EOM	91,673	90,999	88,303	84,386	76,009	64,429	64,757	94,294	142,245	151,335	148,057	111,034



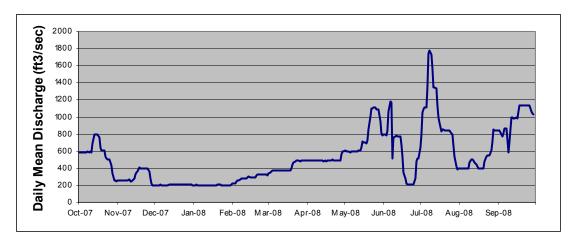
#### Appendix A (Table 4 of 38) Blue River below Green Mountain Reservoir, CO

Location.—Lat 39°52'49", long 106°20'00", Summit County, Hydrologic Unit 14010002, on left bank 0.3 miles upstream from Elliot Creek, 0.3 miles downstream from Green Mountain Reservoir and 13 miles southeast of Kremmling.

Gage.-- Water-stage recorder with satellite telemetry. Datum of gage is 7682.66 feet (levels by U.S. Bureau of Reclamation).

Remarks.--Drainage area is 599 mi<sup>2</sup> including 15.3 mi<sup>2</sup> of Elliot Creek above the diversion for Elliot Creek feeder canal. Flow regulated by Green Mountain Reservoir since 1942. Diversions for irrigation of 5,000 acres upstream from station. Transmountain diversions upstream from station. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes. Official record is published by the United States Geological Survey.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	581	253	204	200	225	321	488	602	789	648	394	845
2	585	254	202	201	226	340	487	604	790	794	398	845
3	585	253	203	205	225	350	489	602	792	1050	396	844
4	584	253	202	201	241	368	493	602	789	1090	396	801
5	587	256	205	201	254	379	497	592	839	1110	393	767
6	583	253	204	203	253	377	496	589	1070	1110	394	809
7	579	254	203	200	265	376	495	595	1180	1340	397	868
8	591	252	203	200	279	377	493	592	1170	1740	400	866
9	583	259	204	201	279	376	495	597	518	1780	400	736
10	593	265	203	201	278	376	493	597	765	1730	471	587
11	586	250	202	202	279	377	488	600	774	1570	499	707
12	689	251	205	201	278	375	489	597	779	1350	498	991
13	795	258	206	201	293	376	487	604	771	1350	496	989
14	796	284	206	202	300	375	488	603	777	1330	464	986
15	794	333	205	200	297	374	484	643	773	1140	446	984
16	791	355	207	200	296	374	488	711	680	998	417	993
17	756	364	207	202	298	374	485	701	535	935	398	987
18	640	405	206	204	297	374	489	698	355	836	395	1070
19	603	400	205	203	297	374	491	694	280	851	398	1140
20	610	398	205	205	312	394	493	724	220	855	398	1140
21	606	397	207	205	324	448	492	857	205	847	398	1140
22	535	397	205	205	324	473	501	1010	206	847	482	1130
23	511	395	206	202	323	484	491	1100	207	846	542	1130
24	502	397	206	203	322	487	489	1100	207	841	545	1130
25	500	397	207	203	322	493	490	1110	210	840	544	1130
26	473	365	206	203	326	497	495	1110	208	811	545	1130
27	433	286	207	203	326	484	495	1090	285	790	610	1130
28	340	221	209	203	322	487	493	1090	478	670	716	1060
29	257	204	209	197		488	563	1090	509	535	853	1040
30	254	202	211	197		488	602	952	517	426	847	1030
31	251		203	215		488		802		388	847	
Min	251	202	202	197	225	321	484	589	205	388	393	587
Max	796	405	211	215	326	497	602	1110	1180	1780	853	1140
Mean	567	304	205	202	288	410	497	770	589	1014	496	967
ac-ft	34795	18040	12599	12413	15961	25194	29540	47239	35002	62267	30446	57430



#### Appendix A (Table 5 of 38) Willow Creek Reservoir, CO

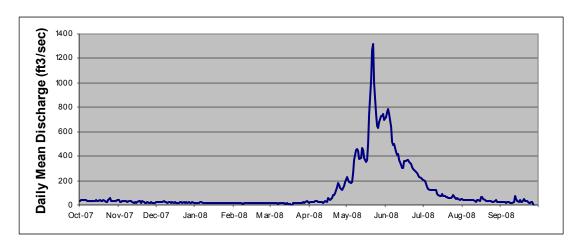
**Location.** — Lat 40°08'52", long 105°56'28", Grand County, Hydrologic Unit 14010001, at Willow Creek Dam, 4 miles north of Granby, Colorado, on Willow Creek, a tributary of the Colorado River.

Gage.— Water level recorder with satellite telemetry. Elevation of gage is 8130 from topographic map.

**Remarks.**—Inflow computed daily using change in content from midnight to midnight, plus the 24-hour average releases through the Willow Creek Pump Canal and the reservoir outlet works. Recorders were operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Inflow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	34	38	27	18	20	19	28	185	697	212	48	25
2	44	28	22	16	19	18	18	230	717	203	46	24
3	42	28	24	16	16	16	26	207	760	194	42	23
4	38	30	23	17	15	13	26	185	789	175	43	23
5	37	31	21	21	17	17	24	179	746	144	40	23
6	37	30	26	22	16	16	27	185	635	132	37	19
7	35	29	31	17	20	15	29	263	513	125	39	22
8	36	28	23	19	12	12	31	370	493	125	42	24
9	35	29	23	18	16	14	24	451	497	125	37	20
10	34	31	18	18	15	15	28	457	437	123	42	18
11	34	30	23	20	18	16	26	441	406	122	41	19
12	33	24	25	17	14	15	23	376	414	119	36	28
13	31	16	20	20	15	13	20	388	371	89	26	71
14	37	22	23	16	18	12	23	465	329	81	38	48
15	34	17	17	16	15	13	33	447	307	78	44	35
16	32	23	22	19	14	12	28	386	304	77	34	24
17	39	34	20	16	16	9	56	349	359	93	62	38
18	35	35	19	16	15	6	47	366	362	71	68	21
19	30	17	19	16	16	-6	44	499	365	72	50	25
20	37	29	21	18	15	18	57	741	371	64	37	48
21	34	23	23	15	16	19	78	1025	353	63	36	33
22	24	14	19	14	15	16	82	1268	332	56	33	35
23	22	20	21	17	14	20	95	1318	311	57	30	35
24	37	22	19	14	17	15	147	997	295	59	29	13
25	54	20	21	16	17	18	180	742	285	65	30	19
26	35	19	17	17	17	16	163	643	271	80	26	25
27	36	21	23	16	14	18	137	631	259	55	22	25
28	35	20	17	18	14	24	121	683	246	52	32	-7
29	34	17	20	17		20	139	729	232	54	40	-6
30	34	19	21	16		25	154	726	219	53	25	-8
31	37		17	19		31		743		43	25	
Min	22	14	17	14	12	-6	18	179	219	43	22	-8
Max	54	38	31	22	20	31	180	1318	789	212	68	71
Mean	36	25	21	17	16	16	64	538	423	99	38	25
ac-ft	2180	1470	1313	1054	880	953	3788	33017	25097	6059	2344	1467



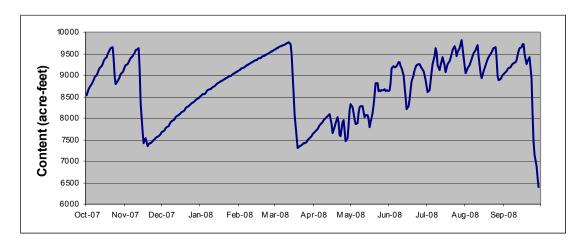
#### Appendix A (Table 6 of 38) Willow Creek Reservoir, CO

Location. —Lat 40° 08'52", long 105° 56'28", Grand County, Hydrologic Unit 14010001, at Willow Creek Dam, 4 miles north of Granby, Colorado, on Willow Creek, a tributary of the Colorado River.

Gage.— Water level recorder with satellite telemetry. Elevation of gage is 8130 from topographic map.

Remarks.—Reservoir is formed by an earth-fill dam. Construction completed in 1953. Impoundment began on April 2, 1953. Willow Creek Reservoir stores water from Willow Creek for diversion to Granby Reservoir via the Willow Creek Canal. Recorder was operated from 01-Oct 2007 to 30-Sep-2008. Record is complete and fair. Maximum capacity is 10,600 acre-feet at elevation 8,130.00 ft, with 9,100 acre-feet of active capacity between elevations 8077.00 and 8130.00 feet. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8,524	9,182	7,667	8,515	9,123	9,584	7,628	8,177	8,630	8,877	9,240	8,989
2	8,597	9,224	7,694	8,532	9,145	9,603	7,649	8,330	8,645	8,746	9,036	9,026
3	8,663	9,265	7,728	8,549	9,161	9,620	7,685	8,247	8,823	8,595	9,099	9,062
4	8,723	9,310	7,760	8,567	9,174	9,631	7,721	8,120	9,169	8,640	9,171	9,094
5	8,782	9,356	7,788	8,592	9,190	9,650	7,751	7,983	9,200	8,864	9,238	9,128
6	8,841	9,397	7,825	8,620	9,206	9,667	7,790	7,857	9,195	9,062	9,297	9,155
7	8,895	9,438	7,871	8,640	9,230	9,681	7,832	7,883	9,187	9,251	9,364	9,187
8	8,950	9,479	7,903	8,663	9,240	9,690	7,878	8,122	9,198	9,441	9,438	9,222
9	9,005	9,523	7,934	8,685	9,257	9,704	7,910	8,266	9,305	9,631	9,501	9,248
10	9,057	9,570	7,955	8,706	9,270	9,720	7,948	8,286	9,294	9,526	9,575	9,270
11	9,110	9,614	7,987	8,729	9,291	9,737	7,987	8,274	9,203	9,230	9,648	9,299
12	9,161	9,620	8,020	8,749	9,305	9,751	8,018	8,132	9,161	9,118	9,690	9,345
13	9,206	9,171	8,046	8,774	9,321	9,763	8,042	8,025	8,999	9,232	9,443	9,476
14	9,265	8,349	8,077	8,792	9,343	9,732	8,072	8,068	8,749	9,332	9,039	9,561
15	9,318	7,678	8,096	8,810	9,356	9,482	8,101	8,077	8,487	9,424	8,932	9,620
16	9,367	7,429	8,125	8,831	9,370	9,052	7,857	7,969	8,211	9,243	8,989	9,656
17	9,430	7,479	8,149	8,849	9,386	8,572	7,653	7,788	8,276	9,068	9,099	9,720
18	9,482	7,530	8,172	8,867	9,402	8,084	7,728	7,913	8,443	9,155	9,222	9,726
19	9,526	7,350	8,196	8,885	9,419	7,570	7,799	8,125	8,660	9,251	9,308	9,487
20	9,584	7,389	8,223	8,906	9,432	7,311	7,894	8,313	8,851	9,329	9,370	9,265
21	9,636	7,418	8,254	8,921	9,449	7,333	8,032	8,534	9,007	9,402	9,430	9,318
22	9,650	7,429	8,276	8,934	9,465	7,350	7,903	8,813	9,118	9,479	9,482	9,375
23	9,405	7,455	8,303	8,953	9,479	7,376	7,604	8,818	9,190	9,575	9,531	9,430
24	8,984	7,484	8,327	8,966	9,498	7,391	7,577	8,625	9,230	9,678	9,578	8,929
25	8,798	7,510	8,354	8,984	9,515	7,411	7,913	8,645	9,251	9,598	9,625	8,084
26	8,851	7,534	8,374	9,002	9,534	7,426	7,948	8,632	9,248	9,443	9,645	7,464
27	8,906	7,559	8,403	9,020	9,548	7,448	7,721	8,642	9,216	9,537	9,394	7,146
28	8,960	7,584	8,423	9,041	9,561	7,481	7,459	8,650	9,163	9,625	8,981	6,891
29	9,013	7,604	8,448	9,060		7,506	7,541	8,675	9,094	9,720	8,877	6,639
30	9,065	7,628	8,475	9,078		7,541	7,827	8,635	8,994	9,814	8,914	6,387
31	9,123		8,495	9,099		7,586		8,645		9,623	8,950	
Min	8,524	7,350	7,667	8,515	9,123	7,311	7,459	7,788	8,211	8,595	8,877	6,387
Max	9,650	9,620	8,495	9,099	9,561	9,763	8,101	8,818	9,305	9,814	9,690	9,726
EOM	9,123	7,628	8,495	9,099	9,561	7,586	7,827	8,645	8,994	9,623	8,950	6,387



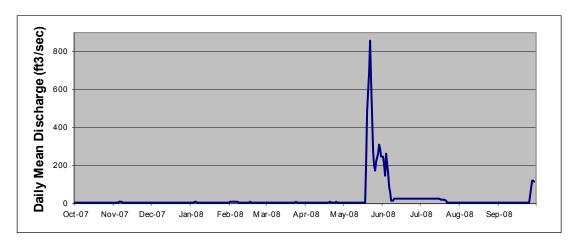
#### Appendix A (Table 7 of 38) Willow Creek below Willow Creek Reservoir, CO

Location.--Lat 40°08'50", long 105°56'16", Grand County, Hydrologic Unit 14010001, at Willow Creek Dam, 4 miles north of Granby, Colorado, on Willow Creek, a tributary of the Colorado River.

Gage.--Water-stage recorder with satellite telemetry. Elevation of gage is 8040 feet from topographic map.

**Remarks.**-- Drainage area is 127 square miles. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7	7	7	7	8	7	7	7	247	27	4	4
2	7	7	7	7	8	7	7	7	250	27	4	4
3	7	7	7	7	8	7	7	7	206	27	4	4
4	7	7	7	8	8	7	7	7	148	27	4	4
5	7	8	7	8	8	7	7	7	261	27	4	4
6	7	8	7	7	8	7	7	7	161	27	4	4
7	7	8	7	7	8	7	7	7	89	27	4	4
8	7	7	7	7	7	7	7	7	61	27	4	4
9	7	7	7	7	7	7	7	7	17	27	4	4
10	7	7	7	7	7	7	7	7	17	27	4	4
11	7	7	7	7	7	7	6	7	24	26	4	4
12	7	7	7	7	7	7	7	7	27	27	4	4
13	7	7	7	7	7	7	7	7	27	27	4	4
14	7	7	7	7	7	7	7	7	27	27	4	4
15	7	7	7	7	7	7	7	7	27	27	4	4
16	7	7	7	7	7	7	7	7	27	27	4	4
17	7	7	7	7	8	7	7	7	27	26	4	4
18	7	7	7	7	7	7	7	7	27	22	4	4
19	7	7	7	7	7	7	7	7	27	21	4	4
20	7	7	7	7	7	7	7	206	27	21	4	4
21	7	7	7	7	7	7	8	487	27	21	4	4
22	7	7	7	7	7	7	7	694	28	14	4	4
23	7	7	7	7	7	7	7	858	28	5	4	4
24	7	7	7	7	7	7	7	637	28	4	4	4
25	7	7	7	7	7	8	7	276	28	4	4	4
26	7	7	7	7	7	7	8	199	27	4	4	5
27	7	7	7	7	7	7	7	175	27	4	4	42
28	7	7	7	7	7	7	7	222	27	4	4	120
29	7	7	7	7		7	7	262	27	4	4	119
30	7	7	7	7		7	7	309	27	4	4	117
31	7		7	7		7		291		4	4	
Min	7	7	7	7	7	7	6	7	17	4	4	4
Max	7	8	7	8	8	8	8	858	261	27	4	120
Mean	7	7	7	7	7	7	7	153	67	19	4	17
ac-ft	430	422	430	434	404	432	418	9403	3956	1174	246	996



## Appendix A (Table 8 of 38) Willow Creek Pump Canal, CO

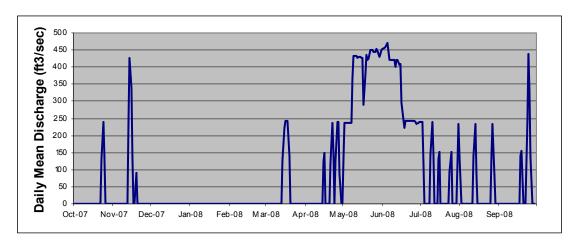
Location. —Lat 40°08'39", long 105°54'10", Grand County, Hydrologic Unit 14010001, at Willow Creek Pump Canal, 4 miles north of Granby, Colorado, on Willow Creek, a tributary of the Colorado River.

Gage.—Water-stage recorder with satellite telemetry at 15 foot Parshall Flume. Elevation of gage is 8300 feet from topographic map.

Remarks.—Canal is used to divert water from Willow Creek Reservoir to Granby Reservoir. Diversions are seasonal, mainly during late spring and early summer. Construction completed in 1953. Length of the canal is 3.4 miles, maximum capacity is 400 ft<sup>3</sup>/sec. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Discharge, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	450	239	234	0
2	0	0	0	0	0	0	0	128	452	239	140	0
3	0	0	0	0	0	0	0	237	456	241	0	0
4	0	0	0	0	0	0	0	237	459	121	0	0
5	0	0	0	0	0	0	0	237	464	0	0	0
6	0	0	0	0	0	0	0	237	470	0	0	0
7	0	0	0	0	0	0	0	237	422	0	0	0
8	0	0	0	0	0	0	0	237	420	0	0	0
9	0	0	0	0	0	0	0	365	420	0	0	0
10	0	0	0	0	0	0	0	434	420	142	0	0
11	0	0	0	0	0	0	0	434	420	241	0	0
12	0	0	0	0	0	0	0	434	401	144	0	0
13	0	226	0	0	0	0	0	428	420	0	140	0
14	0	427	0	0	0	0	0	430	422	0	234	0
15	0	340	0	0	0	127	0	429	406	0	92	0
16	0	138	0	0	0	221	124	428	410	131	0	0
17	0	0	0	0	0	242	150	428	294	151	0	0
18	0	0	0	0	0	243	0	290	245	0	0	0
19	0	90	0	0	0	244	0	379	223	0	0	140
20	0	0	0	0	0	139	0	435	244	0	0	155
21	0	0	0	0	0	0	0	420	242	0	0	0
22	0	0	0	0	0	0	118	425	244	0	0	0
23	131	0	0	0	0	0	236	451	242	0	0	0
24	241	0	0	0	0	0	150	451	242	0	0	250
25	138	0	0	0	0	0	0	450	244	93	0	438
26	0	0	0	0	0	0	126	444	242	151	0	329
27	0	0	0	0	0	0	241	445	242	0	140	141
28	0	0	0	0	0	0	241	452	241	0	233	0
29	0	0	0	0		0	87	446	234	0	86	0
30	0	0	0	0		0	0	430	237	0	0	0
31	0		0	0		0		439		116	0	
Min	0	0	0	0	0	0	0	0	223	0	0	0
Max	241	427	0	0	0	244	241	452	470	241	234	438
Mean	16	41	0	0	0	39	49	365	344	65	42	48
ac-ft	1010	2418	0	0	0	2408	2917	22408	20449	3978	2572	2877



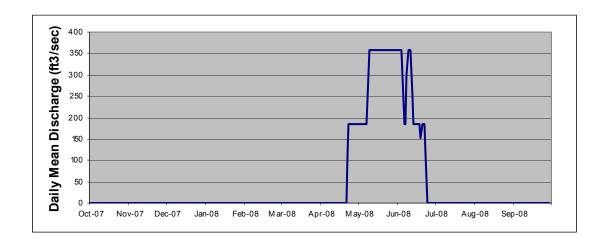
## Appendix A (Table 9 of 38) Windy Gap Pumping Plant, CO

**Location.** --Lat 40°06'24", long 105°58'48", Grand County, Hydrologic Unit 14010001, 5.5 miles northeast of Granby, Colorado, on the Colorado River. **Gage.**-- Reading taken directly from the pumps. Elevation of the pumping plant is 7823 from topographic map.

**Remarks.**— Water is pumped from Windy Gap Reservoir to Granby Reservoir. Water is stored at Granby Reservoir before delivery through Adams Tunnel. Data was provided by Farr Pumping Plant operators each morning. Data was collected from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Windy Gap Pump Discharge, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	184	358	0	0	0
2	0	0	0	0	0	0	0	184	358	0	0	0
3	0	0	0	0	0	0	0	184	358	0	0	0
4	0	0	0	0	0	0	0	184	358	0	0	0
5	0	0	0	0	0	0	0	184	358	0	0	0
6	0	0	0	0	0	0	0	184	242	0	0	0
7	0	0	0	0	0	0	0	184	184	0	0	0
8	0	0	0	0	0	0	0	184	184	0	0	0
9	0	0	0	0	0	0	0	239	299	0	0	0
10	0	0	0	0	0	0	0	358	358	0	0	0
11	0	0	0	0	0	0	0	358	358	0	0	0
12	0	0	0	0	0	0	0	358	358	0	0	0
13	0	0	0	0	0	0	0	358	249	0	0	0
14	0	0	0	0	0	0	0	358	184	0	0	0
15	0	0	0	0	0	0	0	358	184	0	0	0
16	0	0	0	0	0	0	0	358	184	0	0	0
17	0	0	0	0	0	0	0	358	184	0	0	0
18	0	0	0	0	0	0	0	358	184	0	0	0
19	0	0	0	0	0	0	0	358	184	0	0	0
20	0	0	0	0	0	0	0	358	153	0	0	0
21	0	0	0	0	0	0	0	358	184	0	0	0
22	0	0	0	0	0	0	0	358	184	0	0	0
23	0	0	0	0	0	0	105	358	184	0	0	0
24	0	0	0	0	0	0	184	358	120	0	0	0
25	0	0	0	0	0	0	184	358	0	0	0	0
26	0	0	0	0	0	0	184	358	0	0	0	0
27	0	0	0	0	0	0	184	358	0	0	0	0
28	0	0	0	0	0	0	184	358	0	0	0	0
29	0	0	0	0		0	184	358	0	0	0	0
30	0	0	0	0		0	184	358	0	0	0	0
31	0		0	0		0		358		0	0	
Min	0	0	0	0	0	0	0	184	0	0	0	0
Max	0	0	0	0	0	0	184	358	358	0	0	0
Mean	0	0	0	0	0	0	47	309	198	0	0	0
ac-ft	0	0	0	0	0	0	2763	18970	11787	0	0	0



#### Appendix A (Table 10 of 38) Granby Reservoir, CO

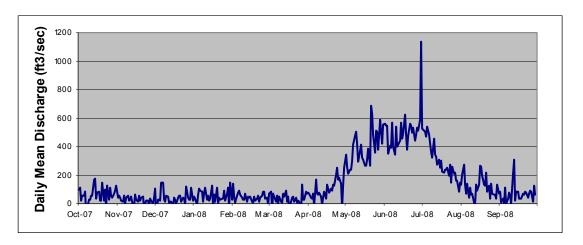
Location. --Lat 40°08'54", long 105°51'48", Grand County, Hydrologic Unit 14010001, on Granby Dam, 5.5 miles northeast of Granby, Colorado, on the Colorado River.

Gage.-- Water level recorder with satellite telemetry. Elevation of gage is 8300 from topographic map.

**Remarks.**-- Inflow computed daily based on change in content from midnight to midnight, and on the average daily releases through the reservoir outlet works. Recorders were operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Inflow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	99	39	107	50	143	-4	73	250	553	1138	148	73
2		55	-48	33		73	74			523		82
3	114	43	26	-6	46			345	560		130	8
4	23 54	23	31	60	9 57	-45	70 45	258 214	544 545	513 502	203 271	32
5	55	12	23	108	80	73	32	236	354	473		2
_											133	
6	86	53	147	88	90	49	72	242	407	537	71	111
	-69	-3	149	83	65	13	-13	299	394	482	138	-1
8	-29	40	25	14	43	54	168	413	567	421	45	35
9	31	55	12	77	30	-1	72	476	401	367	111	79
10	29	23	56	113	25	47	65	506	342	326	66	58
11	54	25	49	27	71	14	78	422	537	456	69	-1
12	59	52	4	57	13	9	51	294	398	344	6	210
13	171	-18	16	18	48	71	-9	374	415	328	-1	310
14	174	-12	14	34	39	49	42	412	441	275	131	21
15	37	61	-15	124	50	90	84	323	566	311	89	81
16	79	30	43	-21	15	12	38	312	454	250	133	81
17	87	17	28	61	10	51	136	267	491	304	266	32
18	24	54	3	14	50	-19	104	266	628	228	263	38
19	24	23	43	111	23	17	79	312	480	218	200	37
20	147	41	56	5	34	39	106	386	377	240	135	71
21	24	52	57	43	59	48	93	270	480	237	128	64
22	96	-41	14	28	13	15	132	686	560	254	217	85
23	-26	1	43	35	41	45	125	632	546	196	87	75
24	123	23	34	32	55	9	202	483	495	275	127	40
25	27	18	-5	91	82	20	255	359	530	145	38	68
26	110	-16	120	20	83	16	169	509	439	259	137	92
27	54	32	41	68	33	-46	180	507	483	209	68	86
28	43	19	28	112	39	136	138	382	535	216	62	17
29	73	-1	28	-30		30	-25	590	512	159	61	123
30	89	40	114	146		31	123	508	589	159	35	64
31	123		20	30		86		418		83	133	
Min	-69	-41	-48	-30	9	-46	-25	214	342	83	-1	-1
Max	174	61	149	146	143	136	255	686	628	1138	271	310
Mean	64	25	41	52	48	34	92	386	487	336	119	69
ac-ft	3930	1465	2501	3218	2665	2105	5463	23663	28954	20647	7326	4105



#### Appendix A (Table 11 of 38) Granby Reservoir, CO

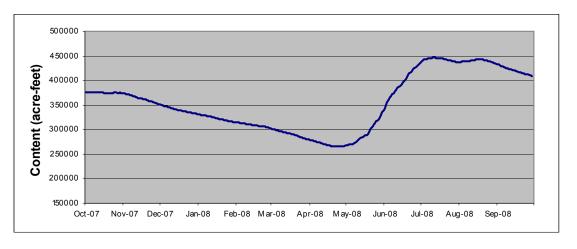
Location. --Lat 40°08'54", long 105°51'48", Grand County, Hydrologic Unit 14010001, on Granby Dam, 5.5 miles northeast of Granby, Colorado, on the Colorado River.

Gage.-- Water level recorder with satellite telemetry. Elevation of gage is 8300 from topographic map.

Remarks.--Reservoir is formed by an earth-fill dam and four earth-fill dikes. Construction completed in 1950. Impoundment began on 14-Sep-1949. Granby Reservoir provides west-slope storage for the Colorado-Big Thompson Project. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Maximum capacity is 539,800 acre-feet at elevation 8,280.00, with 463,300 acre-feet of active capacity between elevations 8186.90 and 8280.00 feet. Records are complete and reliable, but the data has not been revised. This record consists of operational data which could be subject to future revisions and changes.

Storage, Acre-Feet, 2400-hour Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	376,346	373,855	350,440	331,358	314,633	302,332	279,873	267,033	338,546	436,997	437,128	433,859
2	375,799	373,188	349,500	330,443	314,297	301,510	279,084	267,906	343,711	439,094	437,521	432,946
3	375,495	372,642	348,620	329,415	313,905	300,854	278,454	268,627	349,500	441,000	437,717	431,969
4	375,555	372,037	347,799	328,959	313,514	299,925	277,824	269,090	355,691	442,053	438,176	430,927
5	375,616	371,492	346,979	328,845	313,235	299,433	276,829	269,606	360,802	442,910	438,373	429,563
6	375,738	370,706	346,395	328,674	312,844	298,670	276,149	270,329	364,988	443,767	438,504	428,719
7	375,860	369,680	346,278	328,446	312,509	297,908	275,314	271,053	368,233	444,559	438,963	427,617
8	376,164	368,775	345,402	327,991	312,174	297,093	274,792	272,452	370,948	445,286	439,160	426,516
9	376,407	367,751	344,760	327,479	311,728	296,170	274,011	274,271	374,583	445,550	439,488	425,481
10	376,407	366,729	343,944	326,910	311,227	295,520	273,179	276,672	377,687	445,881	439,948	424,383
11	376,468	365,768	342,779	326,342	310,837	294,708	272,400	278,611	380,191	446,344	440,408	423,286
12	376,529	364,808	342,024	325,708	310,448	294,221	271,674	280,031	383,808	446,675	440,737	422,706
13	376,468	364,208	341,443	325,024	310,059	293,735	270,794	281,560	386,271	446,344	441,263	422,513
14	376,042	364,029	340,863	324,455	309,726	293,087	270,019	283,358	388,184	445,947	441,921	421,612
15	374,948	363,669	340,167	323,886	309,282	292,818	269,297	285,056	390,040	445,616	442,251	420,840
16	374,644	362,951	339,530	323,147	308,893	292,225	268,730	286,440	393,143	445,418	442,185	419,812
17	373,976	362,115	339,009	322,580	308,505	291,794	268,369	287,720	396,508	445,220	442,646	418,849
18	373,976	361,219	338,373	321,843	308,062	291,203	267,701	288,736	399,573	444,625	443,107	417,824
19	373,976	360,682	337,853	321,390	307,675	290,666	266,879	290,666	403,154	444,097	443,107	417,184
20	374,219	359,908	337,391	320,597	307,232	290,022	266,110	293,465	406,876	443,569	442,910	416,608
21	374,219	359,253	336,930	319,919	306,956	289,110	265,393	297,582	410,552	442,844	442,382	415,712
22	374,158	358,301	336,296	319,355	306,514	288,094	265,188	302,222	413,798	442,251	441,921	414,818
23	374,340	357,589	335,720	318,791	306,127	287,133	265,188	307,066	416,736	441,526	441,000	413,861
24	374,887	356,639	335,374	317,945	305,741	286,227	265,341	310,837	419,427	441,197	440,211	413,351
25	374,887	355,632	334,856	317,495	305,466	285,269	266,058	313,570	421,869	440,868	439,554	413,224
26	374,948	354,567	334,454	316,877	305,245	284,206	266,161	316,034	424,060	440,540	438,963	412,905
27	374,765	353,621	333,880	316,259	304,364	283,146	266,622	318,283	426,516	439,817	438,504	412,269
28	374,826	352,795	333,420	315,866	303,375	282,776	266,981	321,786	428,719	439,094	437,848	411,124
29	374,948	351,911	332,789	315,473		281,930	266,879	325,195	431,057	438,307	436,866	410,235
30	374,583	351,146	332,503	315,193		281,085	266,673	329,244	433,467	437,652	435,884	409,283
31	374,340		331,987	314,801		280,505		334,339		437,390	434,838	
Min	373,976	351,146	331,987	314,801	303,375	280,505	265,188	267,033	338,546	436,997	434,838	409,283
Max	376,529	373,855	350,440	331,358	314,633	302,332	279,873	334,339	433,467	446,675	443,107	433,859
EOM	374,340	351,146	331,987	314,801	303,375	280,505	266,673	334,339	433,467	437,390	434,838	409,283



#### Appendix A (Table 12 of 38) Granby Reservoir, CO

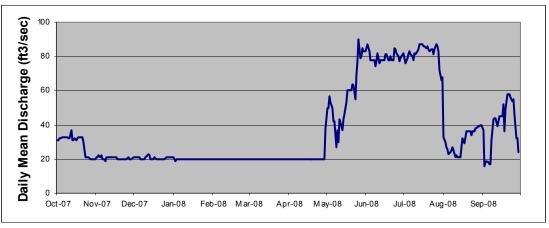
Location. --Lat 40°08'54", long 105°51'48", Grand County, Hydrologic Unit 14010001, on Granby Dam, 5.5 miles northeast of Granby, Colorado, on the Colorado River.

Gage.-- Water level recorder with satellite telemetry. Elevation of gage is 8300 from topographic map.

Remarks.--Reservoir is formed by an earth-fill dam and four earth-fill dikes. Construction completed in 1950. Impoundment began on 14-Sep-1949. Granby Reservoir provides west-slope storage for the Colorado-Big Thompson Project. Data was provided by personnel from the Northern Colorado Water Conservancy District. Releases were made through the outlet works valve. The stream gage directly below the dam is used to measure flows during winter. A USGS station further downstream is used to measure flows between spring and fall. Data was recorded from 01-Oct-2007 to 30-Sep-2008. Records are complete and fair. This record contains operational data which could be subject to future revisions and changes.

#### Discharge, Cubic Feet per Second, 2400-hour Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	31	21	21	21	20	20	20	38	83	82	68	40
2	31	21	21	19	20	20	20	50	85	79	33	37
3	32	22	21	20	20	20	20	50	87	76	30	16
4	32	21	21	20	20	20	20	57	83	79	27	18
5	33	22	21	20	20	20	20	53	78	81	26	19
6	33	20	20	20	20	20	20	50	78	83	23	18
7	33	20	20	20	20	20	20	42	78	81	24	17
8	33	19	20	20	20	20	20	42	78	80	25	17
9	33	21	20	20	20	20	20	27	74	78	27	31
10	32	21	21	20	20	20	20	37	77	82	25	43
11	32	21	22	20	20	20	20	30	82	81	21	44
12	37	21	23	20	20	20	20	43	76	83	22	44
13	31	21	22	20	20	20	20	39	78	84	21	39
14	31	21	20	20	20	20	20	37	78	87	21	42
15	32	21	20	20	20	20	20	43	78	87	21	45
16	31	21	20	20	20	20	20	46	78	87	27	45
17	32	21	21	20	20	20	20	53	81	86	32	45
18	33	20	20	20	20	20	20	60	81	86	29	52
19	33	20	20	20	20	20	20	60	78	85	33	36
20	33	20	20	20	20	20	20	60	78	86	36	49
21	33	20	20	20	20	20	20	60	80	84	36	58
22	30	20	20	20	20	20	20	64	78	83	36	58
23	21	20	20	20	20	20	20	63	78	84	36	58
24	21	20	20	20	20	20	20	55	85	84	34	56
25	21	20	20	20	20	20	20	69	84	81	36	54
26	21	21	21	20	20	20	20	77	82	84	36	55
27	20	20	21	20	20	20	20	90	80	87	38	46
28	20	20	21	20	20	20	20	79	77	86	38	32
29	20	20	21	20		20	20	80	79	83	39	32
30	20	21	21	20		20	20	85	80	72	39	24
31	20		21	20		20		83		66	40	
Min	20	19	20	19	20	20	20	27	74	66	21	16
Max	37	22	23	21	20	20	20	90	87	87	68	58
Mean	29	21	21	20	20	20	20	56	80	82	32	39
ac-ft	1772	1222	1267	1228	1109	1228	1188	3410	4736	5043	1938	2317



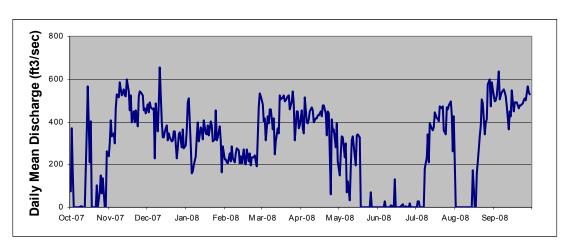
## Appendix A (Table 13 of 38) Farr Pumping Plant, Granby Reservoir, CO

Location. --Lat 40°11'30", long 105°52'52", Grand County, Hydrologic Unit 14010001, at Farr Pumping Plant on the north end of Granby Reservoir, 8 miles northeast of Granby, Colorado, on the Colorado River.

**Gage.**— Reading taken directly from the pumps, based on conduit pressure and Granby Reservoir's elevation. Elevation of the pumping plant is 8320 from topographic map.

**Remarks.**-- Water is pumped from Granby to the Granby Pump Canal which discharges into Shadow Mountain Reservoir. The operation keeps Shadow Mountain Reservoir/Grand Lake at a steady water surface level when transmountain diversions are taking place via Adams Tunnel. Data was provided by Farr Plant operators each morning. Data was collected from 01-Oct-2007 to 30-Sep-2008. Daily data provided by the Northern Colorado Water Conservancy District. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

			_									_
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	76	297	484	363	224	519	385	217	0	0	427	525
2	368	406	446	493	212	481	455	152	0	0	0	497
3	153	332	491	509	204	405	371	252	0	26	0	500
4	0	344	466	286	251	415	344	331	0	27	0	524
5	0	301	457	161	217	315	517	330	0	0	0	638
6	0	465	463	170	283	427	397	234	0	0	0	504
7	0	530	229	194	230	391	391	299	28	0	0	523
8	0	513	488	239	209	458	414	72	0	0	0	537
9	5	586	358	332	252	458	449	121	0	184	0	550
10	5	553	488	396	274	366	467	35	0	234	0	537
11	0	524	656	311	265	417	454	191	0	340	0	521
12	0	552	404	374	206	247	399	312	11	211	0	473
13	179	526	329	360	240	310	417	334	3	394	0	366
14	367	521	329	318	204	369	415	240	0	369	0	449
15	566	598	358	408	271	345	431	195	131	362	0	427
16	211	545	386	347	208	525	431	338	0	375	171	548
17	401	454	312	343	203	504	451	339	0	443	0	448
18	0	522	345	383	270	515	424	326	0	416	0	491
19	0	399	327	335	214	525	477	0	0	415	159	493
20	0	449	311	402	255	496	477	0	4	403	209	491
21	0	399	312	382	194	501	438	0	14	472	333	462
22	105	456	356	309	232	521	336	0	0	464	383	476
23	0	378	355	317	232	523	449	0	0	472	503	478
24	76	519	229	456	245	459	442	0	4	359	485	489
25	152	543	277	315	217	497	60	0	0	339	340	502
26	67	537	343	329	191	545	410	0	0	470	398	509
27	135	526	351	377	474	480	356	72	18	461	413	501
28	0	453	280	307	535	316	365	0	0	479	573	564
29	0	462	367	163		450	280	0	0	498	597	538
30	262	442	278	283		451	394	0	0	437	475	530
31	238		290	224		372		0		262	586	
Min	0	297	229	161	191	247	60	0	0	0	0	366
Max	566	598	656	509	535	545	517	339	131	498	597	638
Mean	109	471	373	329	250	439	403	142	7	287	195	503
ac-ft	6665	27976	22891	20165	13880	26923	23944	8697	424	17639	11983	29873



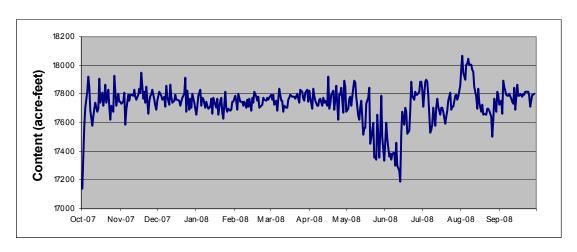
## Appendix A (Table 14 of 38) Shadow Mountain/Grand Lake, CO

Location. --Lat 40°12'26", long 105°50'28", Grand County, Hydrologic Unit 14010001, on the Colorado River at the Shadow Mountain outlet works structure, 10 miles northeast of Granby, Colorado.

Gage.--Water-stage recorder with satellite telemetry. Elevation of gage is 8375 feet from topographic map.

**Remarks.**—Constructed between 1944 and 1946. Impoundment began in 1946. Active capacity between elevations 8,366 and 8,367 is 1,800 acre-feet. Grand Lake is used as forebay storage for Adams Tunnel. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17.141	17.745	17.756	17,659	17,787	17.777	17.746	17.850	17.332	17.889	17.855	17.798
2	17,362	17,734	17,816	17,711	17,745	17,793	17,825	17,679	17,468	17,828	17,980	17,727
3	17,578	17,745	17,803	17,787	17,694	17,761	17,774	17,697	17,598	17.713	18,068	17,751
4	17,702	17,808	17,787	17,828	17,800	17,798	17,696	17,767	17,490	17,884	17,950	17,663
5	17,818	17,583	17,761	17,720	17,745	17,724	17,838	17,780	17,361	17,899	17,897	17,890
6	17,922	17,689	17,780	17,772	17,745	17,756	17,787	17,716	17,384	17,884	18,002	17,853
7	17,849	17,798	17,712	17,768	17,745	17,687	17,756	17,845	17,345	17,797	18,015	17,798
8	17,687	17,756	17,858	17,706	17,718	17,761	17,722	17,891	17,384	17,530	18,047	17,785
9	17,581	17,793	17,780	17,747	17,750	17,840	17,717	17,881	17,392	17,550	18,002	17,785
10	17,641	17,798	17,727	17,721	17,707	17,751	17,759	17,782	17,300	17,588	18,002	17,803
11	17,697	17,785	17,866	17,696	17,763	17,751	17,764	17,646	17,463	17,707	17,967	17,767
12	17,738	17,830	17,780	17,711	17,713	17,674	17,722	17,623	17,300	17,577	17,957	17,747
13	17,674	17,780	17,737	17,769	17,767	17,719	17,774	17,706	17,263	17,706	17,852	17,732
14	17,699	17,761	17,756	17,661	17,684	17,706	17,741	17,751	17,185	17,767	17,778	17,841
15	17,904	17,798	17,798	17,772	17,777	17,702	17,751	17,517	17,521	17,711	17,700	17,694
16	17,741	17,840	17,758	17,729	17,740	17,759	17,722	17,557	17,679	17,656	17,836	17,863
17	17,808	17,808	17,761	17,706	17,813	17,777	17,924	17,562	17,588	17,706	17,743	17,785
18	17,720	17,952	17,751	17,767	17,782	17,795	17,701	17,732	17,702	17,706	17,680	17,787
19	17,775	17,768	17,721	17,653	17,753	17,782	17,732	17,772	17,674	17,674	17,727	17,805
20	17,862	17,818	17,747	17,753	17,782	17,782	17,793	17,845	17,521	17,590	17,653	17,782
21	17,738	17,740	17,772	17,777	17,702	17,782	17,826	17,451	17,545	17,641	17,664	17,805
22	17,831	17,850	17,805	17,671	17,721	17,769	17,692	17,495	17,681	17,686	17,654	17,792
23	17,710	17,666	17,911	17,629	17,727	17,800	17,761	17,601	17,884	17,754	17,696	17,818
24	17,618	17,747	17,679	17,813	17,772	17,764	17,858	17,356	17,787	17,809	17,697	17,813
25	17,718	17,785	17,820	17,697	17,763	17,741	17,624	17,364	17,760	17,694	17,681	17,813
26	17,674	17,798	17,692	17,679	17,753	17,827	17,803	17,345	17,815	17,709	17,643	17,790
27	17,931	17,831	17,767	17,697	17,772	17,816	17,798	17,653	17,792	17,714	17,505	17,713
28	17,820	17,758	17,707	17,684	17,759	17,767	17,845	17,353	17,797	17,785	17,623	17,795
29	17,718	17,721	17,803	17,694		17,751	17,669	17,519	17,815	17,793	17,764	17,795
30	17,800	17,691	17,740	17,745		17,806	17,895	17,786	17,884	17,761	17,679	17,805
31	17,745		17,697	17,745		17,833		17,505		17,780	17,813	
Min	17,141	17,583	17,679	17,629	17,684	17,674	17,624	17,345	17,185	17,530	17,505	17,663
Max	17,931	17,952	17,911	17,828	17,813	17,840	17,924	17,891	17,884	17,899	18,068	17,890
EOM	17,745	17,691	17,697	17,745	17,759	17,833	17,895	17,505	17,884	17,780	17,813	17,805

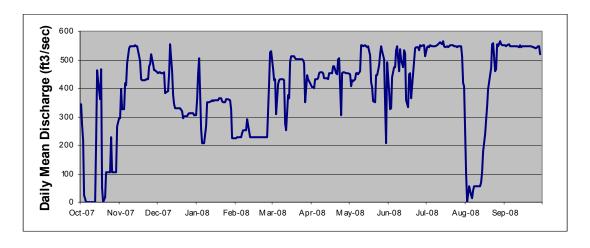


## Appendix A (Table 15 of 38) Alva B. Adams Tunnel at East Portal, near Estes Park, CO

Location. --Lat 40°19'40", long 105°34'39", Larimer County, Hydrologic Unit 10190006, 4.5 miles southwest of Estes Park, Colorado. Gage.-- Water-stage recorder with satellite telemetry at 15 foot Parshall flume. Elevation of gage is 8250 from topographic map. **Remarks.**-- Constructed between 1940 and 1947. Tunnel is 13.1 miles long, and extends between Grand Lake and Estes Park. Its maximum capacity is 550 cubic feet per second. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. This record contains operational

data which could be subject to future revisions and changes.

Oct         Nov         Dec         Jan         Feb         Mar         Apr         May         Jun         Jul         Aug           1         345         294         453         363         226         529         418         453         491         514         407           2         269         398         455         450         229         467         404         448         388         544         101           3         219         328         456         506         229         429         404         407         327         548         0           4         25         327         454         255         229         430         401         428         330         544         28           5         0         416         453         206         229         309         432         426         440         550         56           6         0         410         455         206         241         413         433         432         474         549         26           7         0         488         384         206         252         428         434         454 </th <th>Sep 552 550 549 551 553 549 548 548 547</th>	Sep 552 550 549 551 553 549 548 548 547
2         269         398         455         450         229         467         404         448         388         544         101           3         219         328         456         506         229         429         404         407         327         548         0           4         25         327         454         255         229         430         401         428         330         544         28           5         0         416         453         206         229         309         432         426         440         550         56           6         0         410         455         206         241         413         433         432         474         549         26           7         0         488         384         206         252         428         434         454         474         546         13           8         0         540         386         266         252         430         453         451         535         547         42           9         0         547         390         350         252         431         457	550 549 551 553 549 548 548 547 546
3         219         328         456         506         229         429         404         407         327         548         0           4         25         327         454         255         229         430         401         428         330         544         28           5         0         416         453         206         229         309         432         426         440         550         56           6         0         410         455         206         241         413         433         432         474         549         26           7         0         488         384         206         252         428         434         454         474         546         13           8         0         540         386         266         252         430         453         451         535         547         42           9         0         547         390         350         252         431         457         449         548         546         55	549 551 553 549 548 548 547 546
4         25         327         454         255         229         430         401         428         330         544         28           5         0         416         453         206         229         309         432         426         440         550         56           6         0         410         455         206         241         413         433         432         474         549         26           7         0         488         384         206         252         428         434         454         474         546         13           8         0         540         386         266         252         430         453         451         535         547         42           9         0         547         390         350         252         431         457         449         548         546         55	551 553 549 548 548 547 546
5         0         416         453         206         229         309         432         426         440         550         56           6         0         410         455         206         241         413         433         432         474         549         26           7         0         488         384         206         252         428         434         454         474         546         13           8         0         540         386         266         252         430         453         451         535         547         42           9         0         547         390         350         252         431         457         449         548         546         55	553 549 548 548 547 546
6     0     410     455     206     241     413     433     432     474     549     26       7     0     488     384     206     252     428     434     454     474     546     13       8     0     540     386     266     252     430     453     451     535     547     42       9     0     547     390     350     252     431     457     449     548     546     55	549 548 548 547 546
7     0     488     384     206     252     428     434     454     474     546     13       8     0     540     386     266     252     430     453     451     535     547     42       9     0     547     390     350     252     431     457     449     548     546     55	548 548 547 546
8     0     540     386     266     252     430     453     451     535     547     42       9     0     547     390     350     252     431     457     449     548     546     55	548 547 546
9 0 547 390 350 252 431 457 449 548 546 55	547 546
	546
10 0 548 451 351 291 431 455 461 460 551 56	
11 0 549 554 350 250 429 454 551 537 553 56	547
12 0 549 459 356 228 278 435 550 497 557 55	546
13 208 550 376 357 228 252 434 549 473 560 56	545
14         462         548         343         356         227         375         434         552         535         556         71	551
15         426         547         331         357         228         366         433         547         523         564         107	545
16         362         513         329         357         229         490         451         545         358         548         178	548
17 465 496 331 358 228 511 453 547 335 544 237	548
18         49         431         330         358         229         512         451         516         449         546         287	549
19 0 427 330 364 229 513 477 420 451 545 337	548
20 17 428 320 364 228 504 478 405 364 546 396	548
21 104 427 295 356 228 502 454 354 452 552 446	548
22 105 432 301 352 228 502 450 351 496 551 471	548
23 105 431 303 352 228 502 503 447 541 551 554	547
24 104 478 302 361 228 503 504 447 543 548 557	545
25 227 484 309 360 228 502 306 481 543 547 459	543
26         104         519         312         360         228         500         453         520         534         544         466	542
27 105 484 312 359 422 488 456 549 550 546 553	540
28 105 464 313 326 528 352 456 530 547 548 549	546
29 105 462 312 226 444 453 503 550 546 565	547
30 265 460 307 224 433 454 341 552 513 554	518
31 293 307 225 423 206 416 551	
Min 0 294 295 206 226 252 306 206 327 416 0	518
Max         465         550         554         506         528         529         504         552         552         564         565	553
Mean 144 466 368 330 252 441 443 462 477 543 267	546
ac-ft 8849 27671 22598 20269 13963 27082 26294 28354 28308 33304 16412	



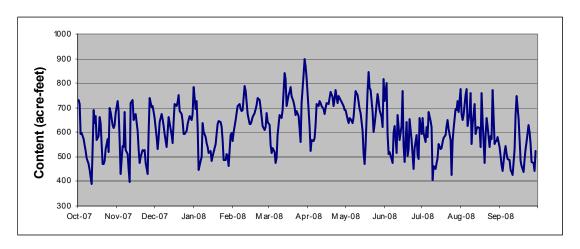
## Appendix A (Table16 of 38) Marys Lake, CO

Location. --Lat 40°22'40", long 105°31'50", Larimer County, Hydrologic Unit 10190006, 2 miles southwest of Estes Park, Colorado.

Gage.-- Water-level recorder with satellite telemetry. Elevation of gage is 8060 feet from topographic map.

**Remarks.**— Constructed between 1947 and 1949. Impoundment began in August, 1950. Active capacity between elevations 8,025 and 8,040 is 500 acrefeet. Used as a forebay storage for Estes Powerplant. The only measurable inflow into the reservoir comes from Adams Tunnel. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. The gage does not record water surface levels below elevation 8,022.62 feet, content of 318 acre-feet. Record is complete and reliable. These are operational data which could be subject to further revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	731	728	657	784	564	640	822	691	818	591	777	541
2	714	687	581	693	603	628	689	689	727	659	674	505
3	592	567	532	726	651	550	627	654	800	599	652	465
4	598	431	578	620	677	516	522	638	593	560	672	444
5	572	545	643	448	708	537	567	657	510	620	753	521
6	548	540	673	483	715	518	566	656	518	580	776	544
7	522	683	655	500	694	473	576	639	490	681	626	510
8	496	529	626	638	685	496	629	663	477	647	680	492
9	471	512	595	602	689	587	714	715	597	621	760	486
10	445	451	541	579	788	670	709	767	627	407	554	447
11	417	398	603	557	766	663	726	753	515	463	635	438
12	390	721	662	541	724	660	718	724	669	450	715	426
13	690	732	637	517	675	692	706	693	620	476	593	534
14	638	652	589	522	634	841	696	677	570	495	613	671
15	668	666	557	485	632	818	676	607	624	554	623	746
16	569	675	646	505	645	709	697	516	770	532	619	655
17	584	606	715	521	661	752	718	471	550	536	541	571
18	663	531	706	552	679	764	716	544	480	560	759	482
19	638	474	725	594	695	784	741	769	641	576	645	461
20	470	498	751	635	711	749	765	845	503	590	475	438
21	471	528	688	644	740	722	742	779	534	625	588	489
22	485	522	673	641	730	701	709	774	654	648	657	530
23	530	528	644	623	697	671	737	683	570	613	626	561
24	573	477	594	570	664	686	773	600	506	570	540	628
25	520	431	592	488	626	667	720	632	450	428	585	602
26	698	598	606	488	611	618	746	672	538	563	571	556
27	681	739	635	510	620	561	739	754	587	614	773	479
28	629	703	651	502	677	720	732	728	509	695	552	474
29	617	708	666	464		834	717	691	492	692	563	443
30	631	682	651	589		897	706	664	658	727	566	525
31	680		675	597		869		623		683	581	
Min	390	398	532	448	564	473	522	471	450	407	475	426
Max	731	739	751	784	788	897	822	845	818	727	777	746
EOM	680	682	675	597	677	869	706	623	658	683	581	525



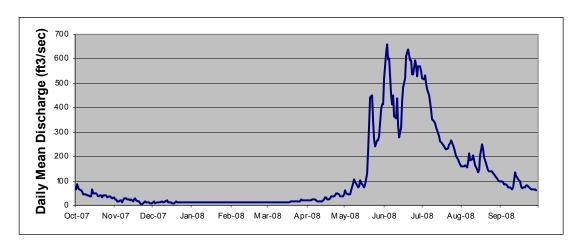
#### Appendix A (Table 17 of 38) Big Thompson River above Lake Estes, CO

**Location.** --Lat 40°22'42", long 105°30'48", Larimer County, Hydrologic Unit 10190006, 600 feet downstream from bridge on state highways 7 and 36 in Estes Park, Colorado, downstream from Black Canyon Creek, and 0.3 miles northwest of Estes Powerplant.

Gage.-- Water-stage recorder with satellite telemetry. 15 foot Parshall flume with overflow weirs and supplemental outside gage. Datum of gage at 7492.5 feet.

**Remarks.**— Drainage area is 137 mi<sup>2</sup>. Station consists of data collection platform as primary record with graphic chart recorder as backup. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. The station is shutdown during winter, however the available data is reliable. This record contains operational data which could be subject to future revisions and changes. The official record for this station is published by the State of Colorado, Division of Water Resources.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aug	Sep
1	64	26	14	14	14	14	21	45	412	550	166	98
2	85	24	15	14	14	14	20	63	518	521	161	97
3	75	16	10	14	14	14	22	49	621	514	159	97
4	66	17	12	14	14	14	22	45	661	534	161	93
5	60	21	11	14	14	14	21	43	597	501	163	87
6	57	19	13	14	14	14	23	43	601	474	157	87
7	46	12	14	14	14	14	24	61	450	449	178	81
8	43	28	16	14	14	14	23	92	412	423	214	75
9	44	28	13	14	14	14	22	108	451	389	184	72
10	42	28	12	14	14	14	16	95	363	353	190	69
11	40	26	17	14	14	14	17	91	357	344	204	67
12	37	26	21	14	14	14	16	72	438	336	184	75
13	37	22	14	14	14	14	16	77	326	320	162	137
14	65	24	14	14	14	14	18	102	279	306	147	118
15	51	18	13	14	14	14	25	87	320	283	135	115
16	48	25	10	14	14	14	31	82	427	262	142	107
17	48	27	8	14	14	14	33	74	482	258	203	99
18	43	20	9	14	14	14	25	84	519	252	250	79
19	36	18	15	14	14	14	24	132	608	241	228	70
20	39	16	14	14	14	15	29	223	625	235	197	74
21	40	7	14	14	14	15	36	330	639	231	172	74
22	31	6	14	14	14	15	38	442	593	232	156	82
23	40	9	14	14	14	15	35	451	595	249	142	83
24	42	14	14	14	14	15	42	342	537	254	139	75
25	40	17	14	14	14	16	51	270	536	265	138	69
26	34	12	14	14	14	15	49	241	593	247	140	65
27	37	14	14	14	14	15	44	267	574	232	133	67
28	37	12	14	14	14	23	36	265	529	216	125	67
29	33	9	14	14		20	36	287	568	200	116	64
30	30	10	14	14		21	38	392	568	189	109	62
31	31		14	14		22		412		176	102	
												-
Min	30	6	8	14	14	14	16	43	279	176	102	62
Max	85	28	21	14	14	23	51	451	661	550	250	137
Mean	46	18	14	14	14	15	28	173	507	324	163	84
ac-ft	2814	1091	830	859	776	937	1689	10627	30094	19871	10013	4960



#### Appendix A (Table 18 of 38) Olympus Dam, CO

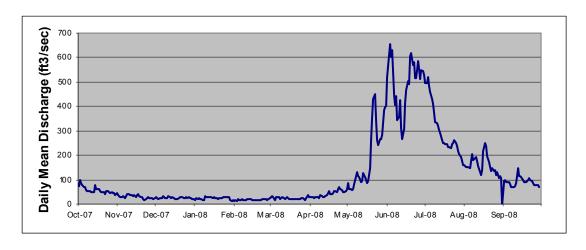
Location. --Lat 40°22'31", long 105°29'15", Larimer County, Hydrologic Unit 10190006, 1.5 miles east of Estes Park, Colorado, on the Big Thompson River.

Gage.—Water-stage recorders with satellite telemetry. Inflow computed daily based on the change in content from midnight to midnight at Marys Lake and Lake Estes, daily average releases from Olympus Dam, and daily average discharge at Olympus Tunnel and Adams Tunnel.

Remarks.— Olympus dam was constructed between 1947 and 1949. Impoundment began on November 1948. Total capacity at maximum water surface elevation of 7475.0 feet is 3,070 acre-feet. Recorders were operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable, but have not been revised. This record contains operational data which could be subject to future revisions and changes.

Inflow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	75	37	28	15	14	23	29	61	403	530	158	-4
2	97	34	24	23	16	28	27	86	519	497	158	95
3	85	27	19	22	13	32	29	62	610	496	151	98
4	78	28	23	25	19	28	29	63	657	520	150	91
5	70	32	24	22	15	17	25	58	603	481	153	90
6	69	30	23	19	16	27	29	60	630	457	148	91
7	57	23	31	18	20	28	29	81	447	428	176	83
8	54	41	26	17	18	27	30	113	407	410	206	71
9	55	40	23	31	18	22	26	132	444	374	180	69
10	53	41	25	30	17	24	35	115	344	337	187	70
11	50	38	32	28	22	28	32	109	356	331	194	72
12	49	38	29	29	19	24	29	90	427	319	175	84
13	51	34	24	30	19	19	28	96	310	301	156	147
14	77	36	27	28	22	24	31	126	267	292	130	116
15	62	29	24	26	18	28	37	110	308	264	118	114
16	61	37	19	29	17	21	46	100	413	251	138	109
17	61	39	21	23	15	21	52	87	466	248	215	100
18	53	32	22	23	17	20	40	93	504	246	250	92
19	48	29	26	21	15	20	39	147	491	244	236	90
20	50	27	28	24	17	21	46	260	604	233	197	91
21	51	19	29	25	16	21	52	358	620	232	173	97
22	41	18	27	25	18	21	54	429	571	229	153	105
23	53	21	25	27	20	20	49	449	580	244	136	97
24	53	26	24	30	19	19	62	340	517	250	149	94
25	50	29	27	28	19	22	68	263	516	261	134	86
26	45	24	25	28	19	24	62	241	584	249	140	78
27	48	23	28	28	18	25	58	267	553	237	119	77
28	47	24	26	30	20	21	51	266	510	219	130	79
29	44	19	24	15		18	51	284	548	204	107	78
30	38	24	22	14		23	53	383	544	191	114	71
31	44		22	15		36		398		175	106	
Min	38	18	19	14	13	17	25	58	267	175	106	-4
Max	97	41	32	31	22	36	68	449	657	530	250	147
Mean	57	30	25	24	18	24	41	185	492	315	159	88
ac-ft	3503	1780	1538	1481	982	1449	2431	11339	29211	19305	9775	5209



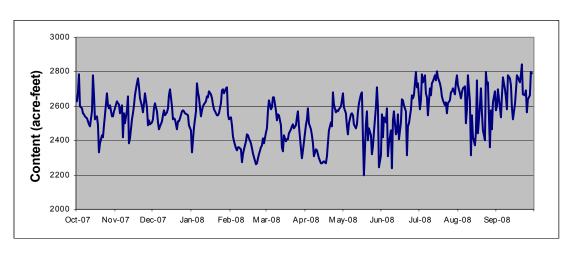
## Appendix A (Table 19 of 38) Olympus Dam, CO

Location. --Lat 40°22'31", long 105°29'19", Larimer County, Hydrologic Unit 10190006, 1.5 miles east of Estes Park, Colorado, on the Big Thompson River

Gage.-- Water-level recorder with satellite telemetry. Elevation of gage is 7490 feet from topographic map.

**Remarks.**-- Constructed between 1947 and 1949. Impoundment began in November, 1948. Active capacity between elevations 7,450.25 and 7,474.00 is 2,476 acre-feet. Used as afterbay storage for Estes Powerplant and forebay for Olympus Tunnel. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,626	2,589	2,524	2,334	2,532	2,449	2,389	2,631	2,312	2,735	2,778	2,574
2	2,682	2,629	2,587	2,402	2,486	2,470	2,488	2,677	2,554	2,584	2,723	2,599
3	2,785	2,614	2,619	2,478	2,424	2,574	2,524	2,594	2,421	2,633	2,675	2,697
4	2,599	2,613	2,572	2,572	2,394	2,631	2,587	2,556	2,532	2,787	2,648	2,592
5	2,589	2,556	2,508	2,730	2,357	2,582	2,501	2,481	2,508	2,739	2,680	2,532
6	2,559	2,607	2,468	2,679	2,342	2,592	2,468	2,436	2,587	2,777	2,702	2,656
7	2,552	2,421	2,481	2,650	2,360	2,653	2,428	2,501	2,308	2,677	2,713	2,770
8	2,541	2,556	2,513	2,542	2,362	2,651	2,382	2,552	2,384	2,650	2,501	2,696
9	2,529	2,498	2,549	2,576	2,346	2,577	2,309	2,557	2,460	2,546	2,584	2,650
10	2,514	2,574	2,577	2,597	2,276	2,519	2,346	2,547	2,240	2,704	2,778	2,584
11	2,496	2,658	2,546	2,611	2,317	2,551	2,344	2,493	2,516	2,660	2,626	2,778
12	2,485	2,384	2,562	2,629	2,350	2,544	2,319	2,471	2,571	2,733	2,314	2,764
13	2,567	2,410	2,589	2,655	2,395	2,488	2,295	2,493	2,434	2,747	2,547	2,723
14	2,778	2,526	2,663	2,653	2,437	2,360	2,270	2,562	2,454	2,778	2,416	2,592
15	2,663	2,559	2,697	2,685	2,432	2,338	2,267	2,616	2,551	2,752	2,371	2,522
16	2,524	2,607	2,601	2,667	2,411	2,429	2,271	2,668	2,405	2,804	2,445	2,611
17	2,542	2,663	2,524	2,648	2,384	2,398	2,278	2,680	2,503	2,770	2,751	2,684
18	2,491	2,735	2,529	2,613	2,355	2,405	2,265	2,419	2,638	2,732	2,439	2,777
19	2,330	2,764	2,526	2,584	2,328	2,408	2,309	2,198	2,634	2,706	2,596	2,770
20	2,382	2,716	2,465	2,559	2,304	2,442	2,384	2,493	2,602	2,655	2,706	2,739
21	2,428	2,643	2,509	2,549	2,263	2,465	2,460	2,569	2,569	2,631	2,566	2,777
22	2,416	2,599	2,511	2,544	2,267	2,480	2,504	2,400	2,312	2,607	2,462	2,843
23	2,488	2,564	2,531	2,557	2,296	2,496	2,485	2,470	2,483	2,621	2,402	2,670
24	2,547	2,619	2,569	2,618	2,322	2,471	2,682	2,429	2,498	2,561	2,796	2,662
25	2,677	2,675	2,577	2,692	2,358	2,488	2,613	2,320	2,581	2,616	2,726	2,691
26	2,606	2,594	2,572	2,696	2,370	2,537	2,562	2,368	2,665	2,634	2,737	2,566
27	2,586	2,488	2,557	2,677	2,415	2,571	2,574	2,447	2,646	2,680	2,358	2,640
28	2,604	2,519	2,554	2,704	2,386	2,480	2,571	2,591	2,660	2,687	2,574	2,662
29	2,542	2,493	2,549	2,708		2,352	2,582	2,711	2,799	2,702	2,468	2,797
30	2,541	2,503	2,490	2,551		2,298	2,597	2,597	2,708	2,667	2,623	2,792
31	2,571		2,460	2,522		2,342		2,246		2,737	2,684	
Min	2,330	2,384	2,460	2,334	2,263	2,298	2,265	2,198	2,240	2,546	2,314	2,522
Max	2,785	2,764	2,697	2,730	2,532	2,653	2,682	2,711	2,799	2,804	2,796	2,843
EOM	2,571	2,503	2,460	2,522	2,386	2,342	2,597	2,246	2,708	2,737	2,684	2,792



#### Appendix A (Table 20 of 38) Big Thompson River below Olympus Dam, CO

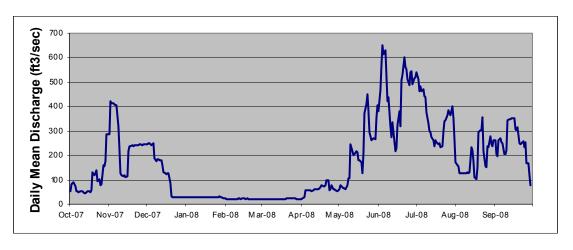
**Location.** --Lat 40°22'35", long 105°29'06", Larimer County, Hydrologic Unit 10190006, 600 feet downstream from Olympus Dam and 100 feet upstream of Dry Gulch, 2.0 miles east in Estes Park.

**Gage.**-- Water-stage recorder with satellite telemetry. 15 foot Parshall flume with overflow weirs in a concrete shelter with a supplemental outside gage. Datum of gage at 7492.50 feet.

**Remarks.**— Drainage area is 155 mi<sup>2</sup>. Area at site used between 29-Jan-1934 and 21-Mar-1951 was 162 mi<sup>2</sup>. Station consists of data collection platform as primary record with graphic chart recorder as backup. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes. The official record for this station is published by the State of Colorado, Division of Water Resources.

Discharge, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	54	287	245	28	24	21	22	56	406	519	271	261
2	81	422	250	28	21	21	22	61	382	539	171	262
3	87	412	251	27	21	21	23	79	465	511	160	204
4	91	413	243	28	21	22	30	70	568	463	156	198
5	74	409	244	29	20	22	58	64	650	481	127	262
6	52	406	248	29	21	21	59	66	615	462	126	269
7	52	405	189	29	22	22	59	61	629	471	125	254
8	51	318	177	29	22	22	59	77	527	441	126	251
9	53	224	183	28	22	21	57	105	421	438	128	205
10	53	125	186	28	22	21	52	107	439	376	127	204
11	52	120	181	28	24	21	58	246	318	332	130	223
12	47	116	182	29	23	21	60	219	276	299	128	342
13	47	117	160	29	22	21	60	202	335	294	130	348
14	48	112	130	29	23	21	60	203	294	276	235	349
15	54	115	126	29	23	20	61	217	219	264	223	351
16	52	215	124	30	23	20	64	214	230	236	177	353
17	51	237	127	30	22	20	71	181	324	260	109	351
18	58	238	127	30	23	20	79	182	379	255	104	309
19	129	240	84	29	22	20	72	173	321	247	153	301
20	120	239	32	29	22	22	73	128	507	251	296	315
21	127	240	27	29	22	23	79	210	530	234	304	251
22	140	240	28	29	21	24	97	371	601	236	304	247
23	95	242	28	29	21	23	98	409	562	298	358	250
24	101	242	28	30	21	24	58	449	554	340	217	257
25	76	246	28	30	21	24	63	383	511	344	156	235
26	83	246	27	30	22	24	79	294	487	366	153	255
27	160	243	29	31	21	24	62	263	542	386	239	167
28	157	244	29	30	21	24	62	265	544	373	232	166
29	174	245	29	30		22	56	271	491	364	279	118
30	285	245	28	25		22	55	266	514	403	247	77
31	287		29	23		22		353		352	239	
Min	47	112	27	23	20	20	22	56	219	234	104	77
Max	287	422	251	31	24	24	98	449	650	539	358	353
Mean	96	253	123	29	22	22	60	201	455	358	191	255
ac-ft	5922	15054	7522	1764	1214	1338	3580	12365	27009	22000	11741	15117



#### Appendix A (Table 21 of 38) Olympus Tunnel near Estes Park, CO

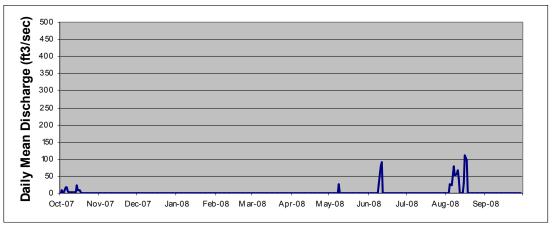
Location. --Lat 40°22'24", long 105°29'00", Larimer County, Hydrologic Unit 10190006, southeast of Estes Park, Colorado.

Gage.-- Water-stage recorder and satellite telemetry. Elevation of gage is 7460 from topographic map.

Remarks.— Constructed between 1949 and 1952. The tunnel is 7.2 miles long, between Estes Park and the Pole Hill Canal. Its diameter is 9.75 feet and maximum capacity is 550 cubic feet per second. The hydropower diversion operation, also known as the skim operation, diverts water from the Big Thompson River through Olympus Tunnel for power generation at three power plants, before returning it to the Big Thompson River near the canyon mouth. The Skim daily value is determined based on the data from the gage in the system. Period of record includes from 01-Oct-2007 through 30-Sep-2008. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

## Hydropower Diversion (Skim), Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	0	0	0	0
2	10	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	4	0	0	0	0	0	0	0	0	0	0	0
5	19	0	0	0	0	0	0	0	0	0	27	0
6	18	0	0	0	0	0	0	0	0	0	23	0
7	7	0	0	0	0	0	0	0	0	0	50	0
8	2	0	0	0	0	0	0	0	0	0	78	0
9	3	0	0	0	0	0	0	25	0	0	53	0
10	2	0	0	0	0	0	0	0	26	0	57	0
11	4	0	0	0	0	0	0	0	80	0	66	0
12	3	0	0	0	0	0	0	0	92	0	45	0
13	3	0	0	0	0	0	0	0	0	0	0	0
14	23	0	0	0	0	0	0	0	0	0	0	0
15	10	0	0	0	0	0	0	0	0	0	0	0
16	10	0	0	0	0	0	0	0	0	0	29	0
17	3	0	0	0	0	0	0	0	0	0	111	0
18	0	0	0	0	0	0	0	0	0	0	97	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	23	0	0	0	0	0	0	25	92	0	111	0
Mean	4	0	0	0	0	0	0	1	7	0	21	0
ac-ft	240	0	0	0	0	0	0	50	392	0	1259	0



## Appendix A (Table 22 of 38) Olympus Tunnel, CO

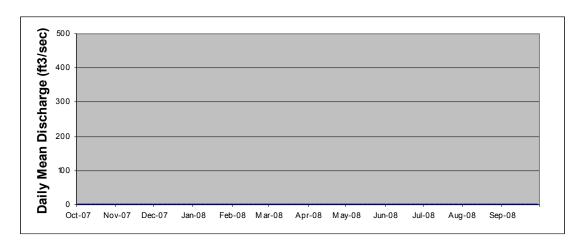
Location. --Lat 40°22'24", long 105°29'00", Larimer County, Hydrologic Unit 10190006, southeast of Estes Park, Colorado.

Gage.-- Water-stage recorder and satellite telemetry. Elevation of gage is 7460 from topographic map.

Remarks.— Constructed between 1949 and 1952. The tunnel is 7.2 miles long, between Estes Park and the Pole Hill Canal. Its diameter is 9.75 feet and maximum capacity is 550 cubic feet per second. The right to divert native run-off is determined by the State of Colorado. Period of record from 01-Oct-2007 through 30-Sep-2008. Record is complete and reliable.

Priority Diversion Flow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0	0	0	0	0	0	0	0	0	0	0	0
ac-ft	0	0	0	0	0	0	0	0	0	0	0	0

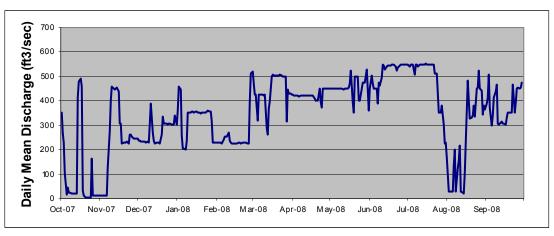


## Appendix A (Table 23 of 38) Olympus Tunnel, CO

**Location.** --Lat 40°22'24", long 105°29'00", Larimer County, Hydrologic Unit 10190006, southeast of Estes Park, Colorado, on the Big Thompson River. **Gage.**-- Water-stage recorder with satellite telemetry. Elevation of gage is 7460 from topographic map.

**Remarks.**— Constructed between 1949 and 1952. The tunnel is 7.2 miles long, between Estes Park and the Pole Hill Canal. Its diameter is 9.75 feet and maximum capacity is 550 cubic feet per second. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Records are complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	351	12	238	359	228	518	425	450	359	549	228	363
2	267	12	236	457	228	470	426	452	451	548	168	390
3	228	12	233	447	228	427	423	450	504	542	27	415
4	103	12	235	258	229	425	421	449	469	547	27	508
5	15	12	233	206	227	318	420	449	450	547	27	374
6	45	12	235	204	240	424	420	450	450	548	27	299
7	23	129	229	201	252	426	419	451	449	506	135	338
8	23	274	234	239	252	425	421	451	387	549	202	415
9	22	402	228	354	254	424	420	449	476	550	27	438
10	22	458	303	354	272	422	422	449	464	542	123	466
11	22	453	390	354	239	424	421	449	497	548	157	305
12	22	448	269	355	229	286	421	448	548	549	219	302
13	22	450	239	357	227	262	420	450	545	549	28	313
14	413	455	227	354	226	368	423	451	528	549	23	316
15	478	439	228	357	227	397	421	450	542	549	21	307
16	491	307	228	355	227	500	421	453	546	551	105	306
17	460	305	229	353	227	506	420	472	544	550	231	304
18	31	227	227	353	229	503	420	523	546	547	482	331
19	13	230	264	350	228	502	410	394	547	549	400	352
20	6	228	334	351	227	504	402	354	550	549	328	352
21	6	228	307	353	228	502	401	499	548	547	330	351
22	6	235	307	352	228	502	403	498	540	547	339	354
23	6	225	305	353	229	506	451	499	522	510	379	466
24	6	260	304	357	230	503	393	401	536	512	336	354
25	164	262	305	362	227	501	373	401	539	510	451	394
26	14	254	306	356	227	500	450	424	549	353	456	452
27	13	247	304	355	392	501	451	474	550	351	523	453
28	13	247	304	317	513	315	451	473	549	352	451	452
29	13	247	302	228		447	451	476	550	382	442	456
30	13	247	338	229		430	451	530	549	303	343	475
31	12		303	228		429		448		227	381	
Min	6	12	227	201	226	262	373	354	359	227	21	299
Max	491	458	390	457	513	518	451	530	550	551	523	508
Mean	107	244	272	326	249	441	422	454	509	500	239	380
ac-ft	6580	14511	16680	20014	13801	27061	25089	27853	30262	30714	14684	22574



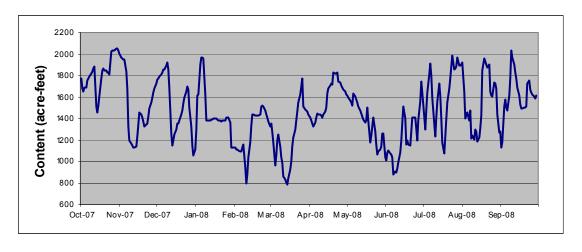
# Appendix A (Table 24 of 38) Pinewood Reservoir near Loveland, Colorado , CO

Location. --Lat 40°22', long 105°17.9', Larimer County, Hydrologic Unit 10190006, 10 miles southwest of Loveland, Colorado.

Gage.-- Water-level recorder with satellite telemetry. Elevation of gage is 6,600 feet from topographic map.

**Remarks.**-- Constructed between 1951 and 1952. Impoundment began in January 4, 1954. Active capacity between elevations 6,550.00 and 6.580.00 is 1,570 acre-feet. Used as the forebay storage for Flatiron Powerplant. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. The gage is capable of measuring the water surface elevation down to 6556.30 feet, a content of 629 acre-feet. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,776	2,009	1,759	1,302	1,126	1,329	1,441	1,625	1,041	1,642	1,900	1,282
2	1,675	1,972	1,776	1,617	1,115	1,349	1,412	1,617	1,008	1,419	1,918	1,132
3	1,650	1,954	1,794	1,625	1,109	1,269	1,384	1,593	1,086	1,302	1,650	1,174
4	1,691	1,945	1,811	1,900	1,103	1,181	1,356	1,570	1,103	1,478	1,398	1,515
5	1,691	1,945	1,829	1,972	1,091	965	1,322	1,546	1,074	1,642	1,427	1,578
6	1,751	1,838	1,855	1,972	1,091	1,057	1,363	1,523	1,063	1,811	1,456	1,500
7	1,776	1,683	1,855	1,954	1,126	1,199	1,405	1,634	1,035	1,909	1,384	1,478
8	1,794	1,329	1,891	1,625	1,156	1,250	1,448	1,609	878	1,802	1,470	1,617
9	1,820	1,193	1,918	1,384	944	1,144	1,441	1,578	908	1,593	1,218	1,776
10	1,838	1,168	1,855	1,384	792	1,035	1,434	1,546	898	1,356	1,243	2,037
11	1,864	1,150	1,691	1,384	878	992	1,427	1,515	934	1,237	1,205	1,972
12	1,882	1,126	1,256	1,384	1,035	863	1,412	1,478	992	1,405	1,302	1,900
13	1,515	1,126	1,150	1,391	1,187	834	1,434	1,448	1,080	1,562	1,282	1,829
14	1,456	1,138	1,199	1,391	1,336	801	1,463	1,419	1,199	1,725	1,187	1,776
15	1,523	1,237	1,250	1,398	1,441	783	1,500	1,391	1,356	1,617	1,224	1,691
16	1,609	1,343	1,296	1,398	1,434	839	1,634	1,363	1,515	1,398	1,309	1,617
17	1,776	1,456	1,349	1,398	1,427	923	1,675	1,384	1,398	1,174	1,427	1,531
18	1,846	1,434	1,356	1,391	1,427	1,002	1,708	1,500	1,156	1,074	1,846	1,493
19	1,864	1,412	1,377	1,384	1,427	1,144	1,725	1,384	1,193	1,237	1,954	1,493
20	1,846	1,370	1,434	1,377	1,427	1,224	1,717	1,174	1,156	1,391	1,927	1,500
21	1,846	1,322	1,478	1,370	1,434	1,302	1,829	1,243	1,150	1,546	1,900	1,500
22	1,829	1,343	1,538	1,377	1,515	1,384	1,820	1,322	1,282	1,675	1,873	1,515
23	1,829	1,356	1,593	1,377	1,523	1,463	1,820	1,405	1,412	1,776	1,900	1,725
24	1,811	1,419	1,650	1,377	1,508	1,546	1,829	1,282	1,405	1,882	1,650	1,751
25	2,019	1,493	1,700	1,405	1,470	1,625	1,742	1,156	1,405	1,982	1,617	1,666
26	2,028	1,546	1,666	1,405	1,441	1,700	1,734	1,068	1,309	1,855	1,609	1,642
27	2,037	1,593	1,500	1,412	1,405	1,776	1,708	1,091	1,199	1,864	1,734	1,625
28	2,037	1,642	1,329	1,363	1,370	1,508	1,691	1,115	1,384	1,882	1,725	1,601
29	2,047	1,683	1,150	1,132		1,485	1,666	1,138	1,562	1,963	1,675	1,585
30	2,047	1,725	1,057	1,126		1,470	1,650	1,263	1,742	1,891	1,441	1,617
31	2,037		1,109	1,126		1,463		1,263		1,891	1,269	
Min	1,456	1,126	1,057	1,126	792	783	1,322	1,068	878	1,074	1,187	1,132
Max	2,047	2,009	1,918	1,972	1,523	1,776	1,829	1,634	1,742	1,982	1,954	2,037
EOM	2,037	1,725	1,109	1,126	1,370	1,463	1,650	1,263	1,742	1,891	1,269	1,617



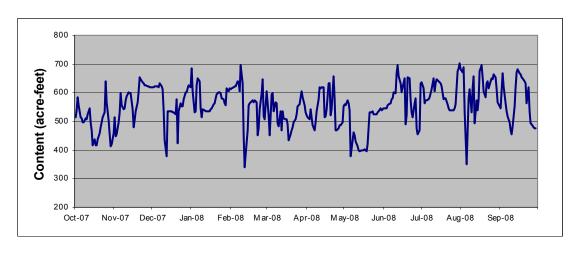
#### Appendix A (Table 25 of 38) Flatiron Reservoir, CO

Location. --Lat 40°22.1', long 105°13.3', Larimer County, Hydrologic Unit 10190006, 8 miles southwest of Loveland, Colorado.

Gage.-- Water-level recorder with satellite telemetry. Elevation of gage is 5,600 feet from topographic map.

**Remarks.**-- Constructed between 1951 and 1953. Impoundment began in January, 1954. Active capacity between elevations 5,462.00 and 5.472.80 is 436 acre-feet. Used as the afterbay storage for Flatiron Powerplant. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	514	514	619	685	610	606	530	551	542	632	703	559
2	538	447	619	606	614	563	522	559	546	636	681	546
3	584	455	623	530	619	522	514	555	546	614	672	606
4	555	498	623	534	623	451	506	572	546	563	690	667
5	514	530	623	627	623	593	542	563	555	572	534	623
6	510	597	619	649	640	597	514	538	559	572	350	563
7	498	555	632	640	636	534	486	378	563	576	463	534
8	498	542	623	546	606	567	467	432	576	584	580	518
9	510	546	610	514	694	563	498	463	580	597	610	498
10	506	572	534	542	632	494	534	451	601	610	530	470
11	526	588	432	538	447	482	576	429	597	649	614	455
12	546	601	378	534	340	534	619	414	667	606	658	482
13	498	597	534	534	385	470	614	400	694	632	494	551
14	467	597	534	534	467	534	619	396	658	645	572	619
15	418	542	534	534	555	510	619	400	632	640	538	672
16	436	478	534	542	563	506	514	400	601	636	576	681
17	418	502	530	546	567	506	518	400	619	632	676	667
18	418	534	530	559	572	490	542	403	649	623	694	663
19	436	567	526	563	567	432	632	396	490	576	654	654
20	459	606	576	580	572	455	632	421	522	580	606	649
21	478	654	425	593	567	467	522	478	654	580	584	640
22	498	645	534	601	451	478	542	530	649	559	632	632
23	514	636	563	601	474	498	658	530	572	546	640	563
24	530	632	551	597	542	506	576	534	530	538	614	619
25	640	627	551	580	597	526	470	526	514	538	640	534
26	567	627	576	576	645	551	467	526	563	538	649	494
27	502	623	601	563	518	559	474	526	580	538	645	490
28	455	623	601	555	506	584	486	530	474	546	663	478
29	414	619	614	614		606	486	534	455	559	654	474
30	421	619	627	606		584	498	546	467	676	610	474
31	459		619	614		555		538		685	567	
Min	414	447	378	514	340	432	467	378	455	538	350	455
Max	640	654	632	685	694	606	658	572	694	685	703	681
EOM	459	619	619	614	506	555	498	538	467	685	567	474



#### Appendix A (Table 26 of 38) Flatiron Powerplant Unit #3 Pump, CO

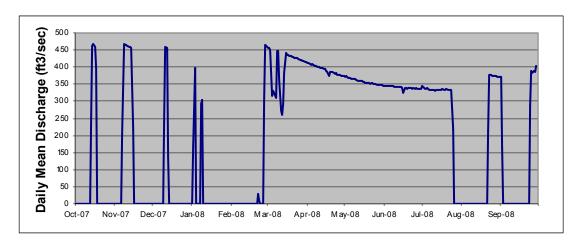
Location. --Lat 40°21'53", long 105°14'09", Larimer County, Hydrologic Unit 10190006, 9 miles west of Loveland, Colorado

Gage.-- There is no flow meter or gage in place. Flow is estimated by converting Megawatt-hours to cubic feet per second from calibrated tables.

Remarks.-- Constructed between 1951 and 1953. The Powerplant consists of three generating units. Unit #3 can be used to pump water from Flatiron

Reservoir to Carter Lake. The maximum capacity is approximately 425 cubic feet per second, but the efficiency varies according to the water surface levels at Carter Lake and Flatiron Reservoir. Discharges are obtained by converting the electric energy needed to pump into flow by using rating tables. Record is complete and fair but it has not been revised. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Mav	Jun	Jul	Aug	Sep
1	0	0	0	0	0	460	414	373	346	337	0	372
2	0	0	0	166	0	456	413	372	345	346	0	372
3	0	0	0	397	0	456	412	373	345	338	0	163
4	0	0	0	0	0	451	411	369	345	335	0	0
5	0	0	0	0	0	314	408	370	345	336	0	0
6	0	0	0	0	0	331	408	369	345	341	0	0
7	0	205	0	0	0	325	405	366	344	334	0	0
8	0	469	0	292	0	310	402	365	346	334	0	0
9	0	466	0	305	0	449	403	364	344	334	0	0
10	0	466	239	0	0	448	402	365	343	333	0	0
11	0	462	460	0	0	364	401	363	343	335	0	0
12	0	460	456	0	0	271	397	361	343	331	0	0
13	251	459	139	0	0	261	398	360	342	333	0	0
14	461	457	0	0	0	292	397	359	342	335	0	0
15	468	221	0	0	0	384	394	358	342	333	0	0
16	458	0	0	0	0	440	395	356	340	335	0	0
17	399	0	0	0	0	437	390	357	325	333	0	0
18	0	0	0	0	0	435	386	355	339	335	0	0
19	0	0	0	0	0	434	374	354	339	333	0	0
20	0	0	0	0	0	433	387	353	337	334	0	0
21	0	0	0	0	0	431	386	353	339	335	0	0
22	0	0	0	0	29	430	387	352	340	334	0	0
23	0	0	0	0	10	426	384	353	339	334	215	0
24	0	0	0	0	0	427	381	351	337	334	376	0
25	0	0	0	0	0	427	382	352	339	334	377	285
26	0	0	0	0	0	424	378	350	337	220	375	388
27	0	0	0	0	301	421	379	349	339	0	376	384
28	0	0	0	0	464	420	376	349	335	0	374	388
29	0	0	0	0		418	375	348	337	0	373	386
30	0	0	0	0		419	374	348	335	0	373	403
31	0		0	0		416		348		0	373	
Min	0	0	0	0	0	261	374	348	325	0	0	0
Max	468	469	460	397	464	460	414	373	346	346	377	403
Mean	66	122	42	37	29	400	393	359	340	277	104	105
ac-ft	4033	7254	2562	2296	1590	24572	23359	22009	20224	17020	6355	6220



## Appendix A (Table 27 of 38) Charles Hansen Feeder Canal 930 Section, CO

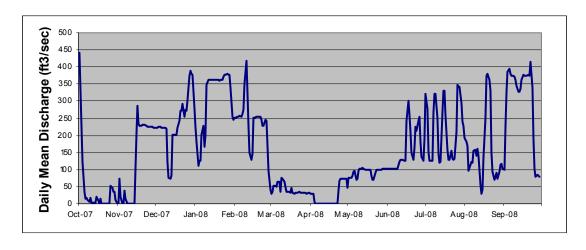
Location. --Lat 40°22'26", long 105°13'52", Larimer County, Hydrologic Unit 10190006, 8 miles southwest of Loveland, Colorado.

Gage.-- Water-stage recorder with satellite telemetry. Elevation of gage is 5470 feet from topographic map.

**Remarks.**— Constructed between 1949 and 1953. The canal is 3.8 miles long and has a maximum capacity of 930 cubic feet per second. The canal is used to move Colorado-Big Thompson Project water and diverted native water to the Big Thompson River and/or Horsetooth Reservoir. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and fair. This record contains operational data which could be subject to future revisions and changes.

Flow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	440	1	223	226	250	42	31	46	102	190	229	103
2	330	74	223	182	252	31	31	75	102	322	193	99
3	232	22	224	110	253	36	30	75	103	279	181	221
4	123	1	224	125	255	52	30	75	103	153	171	324
5	35	1	223	126	257	52	7	81	103	126	97	387
6	14	38	223	201	255	50	0	94	103	126	114	394
7	19	15	223	228	263	65	0	97	103	127	123	380
8	13	1	224	167	274	65	0	70	102	267	121	374
9	6	1	220	199	350	36	0	74	103	322	156	373
10	16	1	124	347	420	75	0	97	102	323	158	373
11	3	1	75	363	328	74	0	102	122	251	141	361
12	3	1	73	362	228	64	0	103	129	147	160	346
13	3	1	83	362	148	51	0	104	130	120	139	327
14	3	1	202	363	129	34	0	102	128	122	55	328
15	20	205	202	362	147	34	0	100	126	268	30	335
16	9	287	202	362	252	35	0	100	127	329	41	362
17	1	233	202	363	253	34	0	100	243	329	134	376
18	14	229	222	363	253	47	0	100	302	260	248	375
19	1	229	241	362	253	31	0	100	260	157	373	375
20	1	230	271	360	254	30	0	81	212	129	379	376
21	1	230	271	363	254	31	0	70	150	130	363	378
22	1	230	293	363	244	32	0	70	128	156	331	375
23	1	228	256	372	228	33	0	92	163	130	149	414
24	1	226	274	378	228	34	38	100	224	130	93	340
25	2	226	272	377	246	32	69	100	212	130	72	194
26	53	225	302	381	242	32	73	100	243	212	80	102
27	48	225	376	378	173	32	73	100	255	349	90	79
28	36	224	390	376	96	33	73	100	181	342	73	85
29	36	224	381	340		31	74	101	138	342	93	83
30	11	223	379	255		30	74	102	125	296	114	80
31	1		279	246		32		102		239	117	
Min	1	1	73	110	96	30	0	46	102	120	30	79
Max	440	287	390	381	420	75	74	104	302	349	379	414
Mean	48	128	238	302	242	42	20	91	154	219	155	291
ac-ft	2925	7591	14608	18540	13435	2556	1196	5574	9156	13472	9536	17263



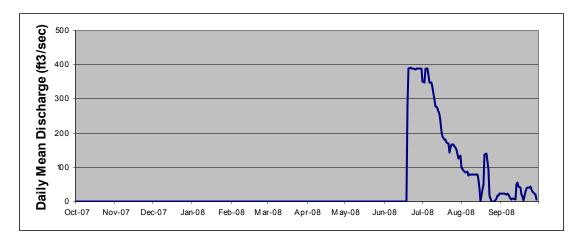
## Appendix A (Table 28 of 38) Dille Tunnel near Drake, CO

**Location.** --Lat 40°25'02", long 105°14'35", Larimer County, Hydrologic Unit 10190006, 11 miles west of Loveland, Colorado, on the Big Thompson River. **Gage.**-- Water-stage recorder with satellite telemetry at Parshall Flume. Elevation of gage is 5520 feet from topographic map.

Remarks.-- Constructed in 1950. Maximum capacity is 600 cubic feet per second. Dille Tunnel diverts water from the Big Thompson River for power generation and water supply. The hydropower diversion operation, also known as the skim operation, diverts water from the Big Thompson River through Dille Tunnel for power generation at the Big Thompson Power Plant, where the diverted water is returned to the river. The Skim daily value is determined based on the data from the gage. Recorder was operated from 01-Oct-2007 to 20-Dec-2007, and from 04-Apr-2008 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

#### Hydropower Diversion Flow (Skim), Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	37	0
8	0	0	0	0	0	0	0	0	0	0	65	0
9	0	0	0	0	0	0	0	0	0	0	86	0
10	0	0	0	0	0	0	0	0	0	0	91	0
11	0	0	0	0	0	0	0	0	0	0	74	0
12	0	0	0	0	0	0	0	0	0	0	46	0
13	0	0	0	0	0	0	0	0	0	0	38	0
14	0	0	0	0	0	0	0	0	0	0	38	0
15	0	0	0	0	0	0	0	0	0	0	34	0
16	0	0	0	0	0	0	0	0	0	0	41	0
17	0	0	0	0	0	0	0	0	0	0	44	0
18	0	0	0	0	0	0	0	0	0	0	44	0
19	0	0	0	0	0	0	0	0	0	0	44	0
20	0	0	0	0	0	0	0	0	0	0	63	0
21	0	0	0	0	0	0	0	0	0	0	62	0
22	0	0	0	0	0	0	0	0	0	0	45	0
23	0	0	0	0	0	0	0	0	0	0	35	0
24	0	0	0	0	0	0	0	0	0	0	29	0
25	0	0	0	0	0	0	0	0	0	0	27	0
26	0	0	0	0	0	0	0	0	0	0	26	0
27	0	0	0	0	0	0	0	0	0	0	7	0
28	0	0	0	0	0	0	0	0	0	0	4	0
29	0	0	0	0		0	0	0	0	0	6	0
30	0	0	0	0		0	0	0	0	0	12	0
31	0		0	0		0		0		0	6	
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	91	0
Mean	0	0	0	0	0	0	0	0	0	0	32	0
ac-ft	0	0	0	0	0	0	0	0	0	0	1979	0



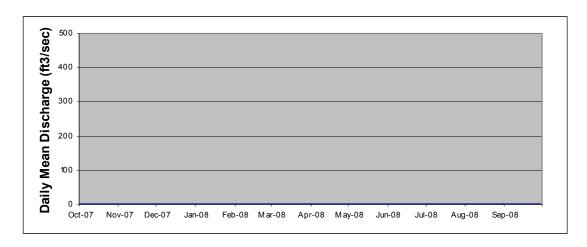
## Appendix A (Table 29 of 38) Dille Tunnel near Drake, CO

Location. --Lat 40°25'02", long 105°14'35", Larimer County, Hydrologic Unit 10190006, 11 miles west of Loveland, Colorado, on the Big Thompson River. Gage.-- None.

**Remarks.--** Constructed in 1950. Maximum capacity is 600 cubic feet per second. Dille Tunnel diverts water from the Big Thompson River for power generation and water supply. The right to divert native run-off is determined by the State of Colorado. Recorder was operated from 01-Oct-2007 to 20-Dec-2007, and from 04-Apr-2008 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

Priority Diversion Flow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0		0	0	0	0	0	0	0
30	0	0	0	0		0	0	0	0	0	0	0
31	0		0	0		0		0		0	0	
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	0	0	0	0	0
Mean	0	0	0	0	0	0	0	0	0	0	0	0
ac-ft	0	0	0	0	0	0	0	0	0	0	0	0

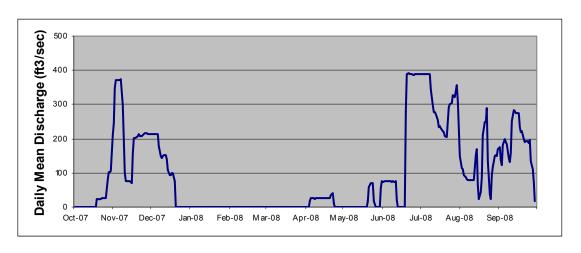


## Appendix A (30 of 38) Dille Tunnel near Drake, CO

**Location.** --Lat 40°25'02", long 105°14'35", Larimer County, Hydrologic Unit 10190006, 11 miles west of Loveland, Colorado, on the Big Thompson River. **Gage.**-- Water-stage recorder with satellite telemetry at Parshall Flume. Elevation of gage is 5520 feet from topographic map.

**Remarks.**— Constructed in 1950. Maximum capacity is 600 cubic feet per second. Dille Tunnel diverts water from the Big Thompson River for power generation and water supply. Recorder was operated from 01-Oct-2007 to 20-Dec-2007, and from 04-Apr-2008 to 30-Sep-2008. Record is complete and reliable, although data has not been revised. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	246	213	0	0	0	0	0	75	388	235	169
2	0	347	213	0	0	0	0	0	74	389	148	174
3	0	371	213	0	0	0	0	0	75	389	114	136
4	0	372	213	0	0	0	0	0	75	388	111	124
5	0	371	213	0	0	0	18	0	75	388	94	180
6	0	371	213	0	0	0	25	0	75	388	87	200
7	0	375	179	0	0	0	25	0	75	389	82	189
8	0	297	149	0	0	0	25	0	75	389	80	185
9	0	197	144	0	0	0	24	0	74	389	80	142
10	0	100	150	0	0	0	25	0	75	345	80	133
11	0	75	153	0	0	0	27	0	74	298	80	159
12	0	75	152	0	0	0	26	0	75	277	80	252
13	0	75	140	0	0	0	25	0	21	278	80	283
14	0	75	109	0	0	0	26	0	0	272	152	282
15	0	69	93	0	0	0	26	0	0	255	170	275
16	0	156	95	0	0	0	26	0	0	234	63	274
17	0	202	100	0	0	0	26	0	0	236	24	275
18	0	202	100	0	0	0	26	0	0	232	43	233
19	24	206	77	0	0	0	25	0	0	221	87	219
20	23	209	0	0	0	0	25	0	280	219	210	222
21	23	212	0	0	0	0	25	18	389	209	249	200
22	24	207	0	0	0	0	36	58	391	205	248	191
23	25	208	0	0	0	0	40	70	390	251	289	194
24	25	211	0	0	0	0	11	70	389	293	134	194
25	25	213	0	0	0	0	0	70	388	301	37	188
26	25	215	0	0	0	0	0	19	387	304	23	195
27	83	215	0	0	0	0	0	0	389	327	94	134
28	102	213	0	0	0	0	0	0	389	326	116	112
29	102	213	0	0		0	0	0	388	323	150	74
30	104	213	0	0		0	0	0	388	356	153	17
31	210		0	0		0		55		309	149	
Min	0	69	0	0	0	0	0	0	0	205	23	17
Max	210	375	213	0	0	0	40	70	391	389	289	283
Mean	26	217	94	0	0	0	17	12	170	309	121	187
ac-ft	1574	12892	5780	0	0	0	1014	713	10070	18945	7409	11098



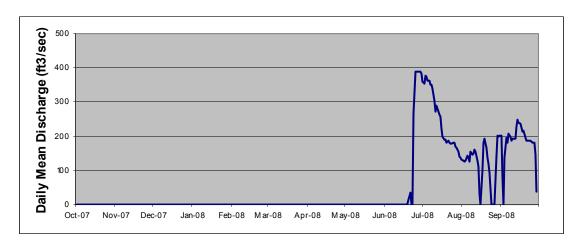
#### Appendix A (Table 31 of 38) Big Thompson Power Plant, CO

**Location.** --Lat 40°25′16", long 105°13′26", Larimer County, Hydrologic Unit 10190006, 9 miles west of Loveland, Colorado, on the Big Thompson River. **Gage.**-- Flow meter with satellite telemetry. Elevation of gage is 5280 feet from topographic map.

**Remarks.**-- Initial operation in 1959. Maximum capacity is 400 cubic feet per second. Power plant returns hydropower diversions to the Big Thompson River downstream of the canyon mouth. Power plant is also used to deliver Colorado-Big Thompson project water. Recorder was operated from 01-Oct-2007 to 05-Oct-2007 and from 17-Junl-2008 to 30-Sep-2008. The plant is winterized from October through April each year. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

Discharge, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0	0	0	0	0	0	0	0	0	383	137	202
2	0	0	0	0	0	0	0	0	0	360	131	203
3	0	0	0	0	0	0	0	0	0	353	129	81
4	0	0	0	0	0	0	0	0	0	378	127	0
5	0	0	0	0	0	0	0	0	0	375	128	138
6	0	0	0	0	0	0	0	0	0	362	142	197
7	0	0	0	0	0	0	0	0	0	363	136	182
8	0	0	0	0	0	0	0	0	0	352	125	207
9	0	0	0	0	0	0	0	0	0	352	155	198
10	0	0	0	0	0	0	0	0	0	338	147	188
11	0	0	0	0	0	0	0	0	0	303	149	194
12	0	0	0	0	0	0	0	0	0	272	162	193
13	0	0	0	0	0	0	0	0	0	289	154	192
14	0	0	0	0	0	0	0	0	0	281	129	229
15	0	0	0	0	0	0	0	0	0	263	111	248
16	0	0	0	0	0	0	0	0	0	258	31	240
17	0	0	0	0	0	0	0	0	0	221	0	236
18	0	0	0	0	0	0	0	0	0	199	98	224
19	0	0	0	0	0	0	0	0	0	190	181	213
20	0	0	0	0	0	0	0	0	3	190	193	217
21	0	0	0	0	0	0	0	0	15	182	168	197
22	0	0	0	0	0	0	0	0	35	186	138	187
23	0	0	0	0	0	0	0	0	0	181	120	187
24	0	0	0	0	0	0	0	0	0	177	94	187
25	0	0	0	0	0	0	0	0	266	179	0	187
26	0	0	0	0	0	0	0	0	388	180	0	184
27	0	0	0	0	0	0	0	0	390	180	0	182
28	0	0	0	0	0	0	0	0	389	171	0	182
29	0	0	0	0		0	0	0	389	167	140	145
30	0	0	0	0		0	0	0	389	154	201	38
31	0		0	0		0		0		140	200	
Min	0	0	0	0	0	0	0	0	0	140	0	0
Max	0	0	0	0	0	0	0	0	390	383	201	248
Mean	0	0	0	0	0	0	0	0	75	257	117	182
ac-ft	0	0	0	0	0	0	0	0	4483	15798	7179	10807



## Appendix A (Table 32 of 38) Charles Hansen Feeder Canal Wasteway, CO

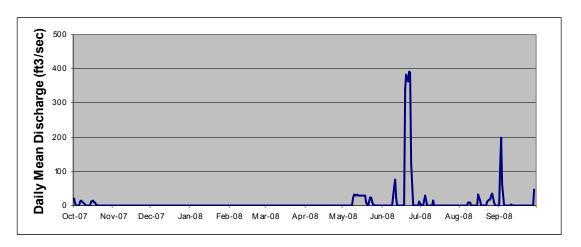
Location. --Lat 40°25'13", long 105°13'28", Larimer County, Hydrologic Unit 10190006, 9 miles west of Loveland, Colorado, on the Big Thompson River.

Gage.-- Water-stage recorder with satellite telemetry at 15 foot Parshall Flume. Elevation of gage is 5465 feet from Designer's Operating Criteria.

**Remarks.**-- Constructed between 1949 and 1953. Maximum capacity is 400 cubic feet per second. The structure is used to return diverted water and deliver Colorado-Big Thompson Project water to the Big Thompson River. Recorder was operated from 01-Oct-2007 to 09-Nov-2007, and from 08-May-2008 to 30-Sep-2008. Record is complete and reliable. These data are provisional operations data and are subject to further revision and change.

Discharge, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	0	0	0	0	0	0	0	0	11	0	0
2	7	0	0	0	0	0	0	0	0	5	1	0
3	0	0	0	0	0	0	0	0	0	0	0	109
4	0	0	0	0	0	0	0	0	0	0	0	199
5	0	0	0	0	0	0	0	0	0	14	0	60
6	12	0	0	0	0	0	0	0	0	29	0	0
7	16	0	0	0	0	0	0	0	0	0	0	0
8	12	0	0	0	0	0	0	0	0	0	0	0
9	5	0	0	0	0	0	0	2	0	0	9	0
10	3	0	0	0	0	0	0	23	0	0	9	0
11	0	0	0	0	0	0	0	31	54	0	0	1
12	0	0	0	0	0	0	0	31	75	15	0	3
13	0	0	0	0	0	0	0	31	22	0	0	1
14	0	0	0	0	0	0	0	30	0	0	0	0
15	13	0	0	0	0	0	0	30	0	0	0	0
16	16	0	0	0	0	0	0	30	0	0	0	0
17	8	0	0	0	0	0	0	30	0	0	34	0
18	9	0	0	0	0	0	0	30	0	0	14	0
19	3	0	0	0	0	0	0	30	0	0	0	0
20	0	0	0	0	0	0	0	9	339	0	0	0
21	0	0	0	0	0	0	0	3	384	1	0	0
22	0	0	0	0	0	0	0	1	364	0	0	0
23	0	0	0	0	0	0	0	23	391	0	0	0
24	0	0	0	0	0	0	0	24	389	0	12	0
25	0	0	0	0	0	0	0	11	123	0	18	0
26	0	0	0	0	0	0	0	2	2	0	18	0
27	0	0	0	0	0	0	0	0	0	0	29	0
28	0	0	0	0	0	0	0	0	0	0	35	0
29	0	0	0	0		0	0	0	0	0	10	0
30	0	0	0	0		0	0	0	0	0	0	48
31	0		0	0		0		0		0	0	
Min	0	0	0	0	0	0	0	0	0	0	0	0
Max	20	0	0	0	0	0	0	31	391	29	35	199
Mean	4	0	0	0	0	0	0	12	71	2	6	14
ac-ft	246	0	0	0	0	0	0	734	4243	149	373	833



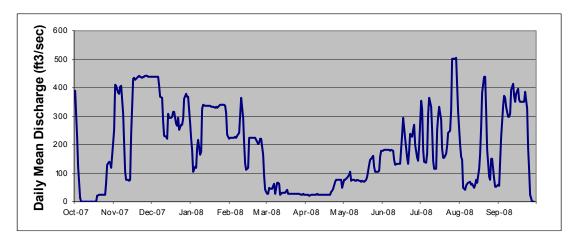
#### Appendix A (Table 33 of 38) Charles Hansen Feeder Canal 550 Section, CO

Location. --Lat 40°25'25", long 105°13'34", Larimer County, Hydrologic Unit 10190006, 9 miles west of Loveland, Colorado.

**Gage.**-- Water-stage recorder with satellite telemetry. Elevation of gage is 5460 feet from topographic map.

**Remarks.**-- Constructed between 1949 and 1953. The canal is 9.4 miles long and has a maximum capacity of 550 cubic feet per second. The canal is used to convey Colorado-Big Thompson Project water and diverted native water to Horsetooth Reservoir. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	391	252	438	223	225	41	26	48	180	198	317	58
2	307	409	438	182	225	27	26	78	181	354	201	57
3	225	408	438	106	225	28	25	79	181	327	157	139
4	122	383	439	124	226	48	25	79	182	182	149	227
5	16	381	439	118	227	45	20	84	182	142	51	337
6	n/a	405	438	188	225	47	24	95	183	138	42	373
7	n/a	407	406	217	231	57	24	105	181	167	55	366
8	n/a	309	370	164	242	62	25	73	181	305	63	332
9	n/a	207	364	174	301	28	24	76	181	365	65	300
10	n/a	107	279	325	364	67	24	75	180	334	69	299
11	n/a	76	231	339	294	67	26	74	148	253	59	310
12	n/a	76	227	338	207	62	25	74	132	146	62	393
13	n/a	75	220	337	135	24	25	77	134	115	51	414
14	n/a	76	307	337	113	31	26	74	134	117	60	373
15	n/a	240	293	336	121	31	25	72	132	251	78	352
16	n/a	433	293	335	223	32	25	72	132	299	67	380
17	n/a	435	299	335	224	31	25	72	235	335	116	395
18	n/a	428	316	334	225	43	25	72	294	289	167	359
19	21	432	316	332	225	28	25	72	261	187	262	353
20	23	438	272	330	225	27	25	76	220	156	381	351
21	23	443	267	332	225	28	25	87	154	153	437	352
22	24	437	296	330	219	28	34	128	134	170	440	350
23	25	436	253	336	205	29	38	149	180	195	323	385
24	25	438	271	341	206	29	44	151	237	241	184	326
25	25	440	269	339	221	27	70	163	227	248	87	190
26	68	441	292	341	222	26	76	124	253	324	78	110
27	130	441	362	340	164	27	76	105	270	500	150	24
28	139	439	379	338	93	28	77	106	199	502	152	n/a
29	137	438	369	311		26	77	107	156	501	82	n/a
30	119	438	368	235		25	77	107	143	507	53	n/a
31	206		277	221		27		158		406	53	
Min	16	75	220	106	93	24	20	48	132	115	42	24
Max	391	443	439	341	364	67	77	163	294	507	440	414
Mean	112	346	330	279	216	36	36	94	186	271	146	293
ac-ft	4008	20526	20251	17104	11958	2225	2157	5769	11059	16647	8933	15655



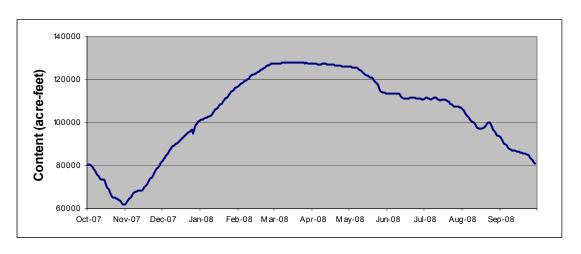
## Appendix A (34 of 38) Horsetooth Reservoir near Fort Collins, CO

Location. —Lat 40°36′00", long 105°10′05", Larimer County, Hydrologic Unit 10190007, at Horsetooth Dam outlet works, 4.8 miles west of Fort Collins, Colorado.

Gage.— Water level recorder with satellite telemetry. Elevation of gage is 5300 from topographic map.

**Remarks.**—Reservoir is formed by four earth-fill dams. Construction completed in 1949. Impoundment began in 1951. Horsetooth Reservoir is one of two terminal reservoirs for Colorado-Big Thompson Project diversions. Transmountain diversions are stored at Horsetooth Reservoir before final delivery. Maximum capacity is 156,735 acre-feet at elevation 5430.00 ft, with 142,038 acre-feet of active storage. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	80,669	62,375	82,399	101,228	117,248	127,523	127,377	125,834	113,612	110,829	106,747	93,615
2	80,640	63,042	83,073	101,585	117,668	127,486	127,450	125,907	113,371	111,151	106,148	92,838
3	80,365	63,869	83,794	101,585	118,053	127,432	127,377	125,834	113,268	111,406	105,419	91,863
4	79,904	64,635	84,651	101,942	118,491	127,505	127,341	125,780	113,320	111,457	104,709	91,016
5	79,143	65,339	85,661	102,121	118,930	127,541	127,250	125,690	113,320	111,202	103,788	90,464
6	78,356	66,113	86,421	102,414	119,335	127,596	127,122	125,617	113,543	110,998	102,773	89,791
7	77,617	66,957	87,262	102,773	119,758	127,596	127,159	125,581	113,526	110,829	102,121	89,076
8	76,838	67,514	88,030	102,953	120,147	127,705	127,122	125,400	113,594	110,998	101,309	88,378
9	75,951	67,873	88,711	103,297	120,695	127,687	127,159	125,148	113,646	111,168	100,839	87,910
10	75,027	68,033	89,289	103,854	121,405	127,705	127,213	124,841	113,697	111,406	100,581	87,517
11	74,136	68,166	89,654	104,627	121,974	127,779	127,250	124,373	113,405	111,440	100,081	87,156
12	73,651	68,273	90,082	105,221	122,295	127,797	127,213	123,708	112,925	111,202	99,485	87,006
13	73,471	68,353	90,449	105,883	122,545	127,797	127,213	123,171	112,224	110,812	98,652	86,901
14	73,430	68,420	90,985	106,530	122,742	127,833	127,177	122,742	111,730	110,557	97,838	86,811
15	72,453	68,834	91,539	107,146	122,885	127,852	127,122	122,331	111,304	110,456	97,202	86,646
16	71,183	69,613	92,095	107,798	123,296	127,760	126,977	121,992	111,015	110,574	97,011	86,511
17	69,910	70,464	92,683	108,417	123,637	127,870	126,922	121,654	110,947	110,693	97,106	86,436
18	68,687	71,360	93,257	109,039	123,978	127,852	126,941	121,281	111,202	110,795	97,249	86,213
19	67,567	72,069	93,880	109,713	124,445	127,870	126,813	121,103	111,389	110,608	97,551	85,945
20	66,601	72,947	94,380	110,337	124,823	127,833	126,704	120,766	111,474	110,354	98,077	85,721
21	65,772	73,803	94,835	110,947	125,238	127,961	126,596	120,235	111,491	109,983	98,812	85,468
22	65,261	74,650	95,416	111,610	125,635	127,888	126,614	119,600	111,406	109,983	99,405	85,363
23	65,039	75,516	95,888	112,224	125,943	127,797	126,469	119,089	111,474	108,703	99,839	85,170
24	64,674	76,330	96,409	112,908	126,305	127,833	126,342	118,351	111,440	108,183	99,936	85,007
25	64,426	77,205	96,900	113,508	126,686	127,779	126,342	117,493	111,321	107,748	99,148	84,518
26	64,206	78,057	94,835	114,214	127,032	127,833	126,251	116,186	111,321	107,347	98,013	83,823
27	63,636	78,871	98,204	114,886	127,395	127,650	126,160	114,973	111,372	107,380	96,884	83,029
28	63,042	79,746	98,924	115,440	127,578	127,687	126,178	114,369	111,219	107,330	95,888	82,268
29	62,439	80,568	99,646	116,047		127,632	126,178	114,024	110,998	107,330	94,756	81,466
30	61,787	81,437	100,306	116,499		127,559	126,015	113,852	110,880	107,280	94,052	80,698
31	61,825		100,791	116,882		127,505		113,766		107,130	93,849	
Min	61,787	62,375	82,399	101,228	117,248	127,432	126,015	113,766	110,880	107,130	93,849	80,698
Max	80,669	81,437	100,791	116,882	127,578	127,961	127,450	125,907	113,697	111,457	106,747	93,615
EOM	61,825	81,437	100,791	116,882	127,578	127,505	126,015	113,766	110,880	107,130	93,849	80,698



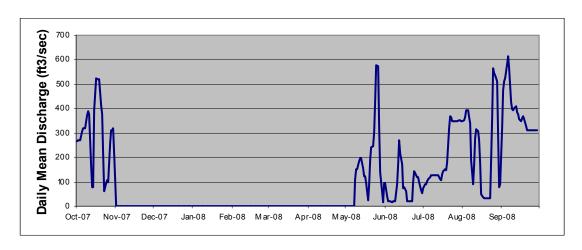
## Appendix A (35 of 38) Charles Hansen Supply Canal below Horsetooth Reservoir, CO

Location. --Lat 40°36'01", long 105°10'18", Larimer County, Hydrologic Unit 10190007, 4 miles west of Fort Collins, Colorado.

Gage.-- Water-stage recorder with satellite telemetry at concrete control. Elevation of gage is 5280 feet from topographic map.

Remarks.-- Constructed between 1950 and 1952. The canal is 5.1 miles long and has a maximum capacity of 1500 cubic feet per second. The canal is used to deliver Colorado-Big Thompson Project water stored at Horsetooth Reservoir. Recorder was operated from 01-Oct-2007 to 01Nov-2007 and from 04-Apr-2008 to 30-Sep-2008 by Northern Colorado Water Conservancy District. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	268	0	0	0	0	0	0	0	94	53	348	89
2	269	0	0	0	0	0	0	0	96	75	349	324
3	270	0	0	0	0	0	0	0	40	91	353	475
4	270	0	0	0	0	0	0	0	20	91	365	512
5	306	0	0	0	0	0	0	0	20	104	394	523
6	318	0	0	0	0	0	0	0	20	111	394	582
7	318	0	0	0	0	0	0	0	18	120	363	616
8	318	0	0	0	0	0	0	0	18	126	341	564
9	371	0	0	0	0	0	0	113	19	126	189	424
10	388	0	0	0	0	0	0	150	19	126	92	395
11	376	0	0	0	0	0	0	150	91	127	172	393
12	166	0	0	0	0	0	0	184	171	128	277	403
13	79	0	0	0	0	0	0	195	270	128	317	408
14	79	0	0	0	0	0	0	195	217	128	308	384
15	392	0	0	0	0	0	0	154	170	109	269	377
16	524	0	0	0	0	0	0	124	73	108	176	358
17	520	0	0	0	0	0	0	124	77	129	50	347
18	521	0	0	0	0	0	0	95	61	143	36	358
19	521	0	0	0	0	0	0	24	19	152	31	367
20	414	0	0	0	0	0	0	84	19	146	33	357
21	378	0	0	0	0	0	0	189	19	182	34	326
22	219	0	0	0	0	0	0	240	19	319	34	312
23	61	0	0	0	0	0	0	245	19	369	34	312
24	95	0	0	0	0	0	0	305	98	363	34	312
25	107	0	0	0	0	0	0	427	142	346	359	312
26	99	0	0	0	0	0	0	576	125	346	564	312
27	258	0	0	0	0	0	0	571	119	346	543	312
28	312	0	0	0	0	0	0	333	121	346	538	312
29	312	0	0	0		0	0	139	97	349	513	312
30	319	0	0	0		0	0	59	64	351	281	312
31	116		0	0		0		18		351	79	
Min	61	0	0	0	0	0	0	0	18	53	31	89
Max	524	0	0	0	0	0	0	576	270	369	564	616
Mean	289	0	0	0	0	0	0	151	78	193	254	379
ac-ft	17743	0	0	0	0	0	0	9287	4661	11859	15582	22538



#### Appendix A (36 of 38) Carter Lake near Berthoud, Colorado, CO

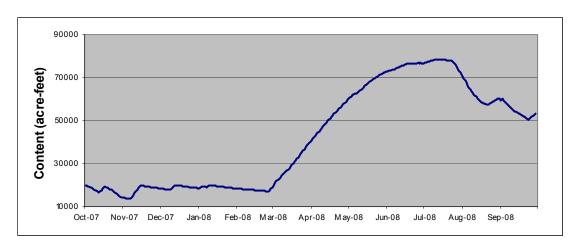
Location. --Lat 40°19' 28", long 105°12' 41", Larimer County, Hydrologic Unit 10190006, on Dam #1, 7 miles northwest of Berthoud, Colorado, and 10 miles west of Loveland, Colorado.

Gage.--Water level recorder with satellite telemetry. Elevation of gage is 5770 from topographic map.

Remarks.--Reservoir is formed by three earth-fill dams. Construction completed in 1952. Carter Lake is one of two terminal reservoirs for Colorado-Big Thompson Project water diversions. Transmountain water diversions are stored at Carter Lake before final delivery. Maximum capacity is 112,200 acre-feet at elevation 5759.00 ft, with 108,900 acre-feet of active capacity. Recorder was operated from 01-Oct-2007 to 30-Sep-2008. Record is complete and reliable. This record contains operational data which could be subject to future revisions and changes.

#### Storage, Acre-Feet, 2400-hour Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	19,956	14,063	18,355	18,464	18,230	19,063	40,326	59,547	72,790	76,726	71,348	60,247
2	19,660	13,988	18,230	18,641	18,201	19,897	40,926	60,108	72,909	76,877	70,379	59,464
3	19,455	13,878	18,145	19,337	18,150	20,742	41,700	60,616	73,107	77,018	69,392	60,247
4	19,215	13,809	18,088	19,215	18,145	21,480	42,405	61,256	73,305	77,189	68,478	59,446
5	18,924	13,709	18,031	19,156	18,116	21,975	43,049	61,879	73,405	77,321	67,511	58,768
6	18,607	13,611	17,975	19,098	18,094	22,576	43,745	62,206	73,554	77,543	66,444	58,220
7	18,258	13,878	17,947	19,011	18,060	23,083	44,371	62,439	73,743	77,745	65,365	57,556
8	17,890	14,743	17,862	19,484	18,031	23,602	45,116	62,730	73,862	77,897	64,482	56,941
9	17,637	15,532	17,806	19,986	17,918	24,381	45,790	63,199	74,191	78,028	63,575	56,382
10	17,381	16,362	18,201	19,927	17,862	25,176	46,502	63,669	74,440	78,302	62,851	55,852
11	16,988	17,159	19,017	19,838	17,806	25,782	47,141	64,094	74,809	78,484	62,140	55,314
12	16,720	17,947	19,808	19,778	17,806	26,246	47,902	64,482	74,909	78,556	61,534	54,859
13	16,884	18,693	19,956	19,719	17,721	26,665	48,591	64,956	75,159	78,556	60,940	54,370
14	17,526	19,484	19,867	19,596	17,699	27,182	49,232	65,479	75,450	78,535	60,274	54,015
15	18,201	19,897	19,755	19,513	17,665	27,834	49,885	66,062	75,720	78,454	59,583	53,599
16	18,837	19,719	19,690	19,484	17,604	28,596	50,532	66,540	75,971	78,454	59,088	53,299
17	19,337	19,660	19,601	19,396	17,554	29,345	51,147	67,068	76,273	78,403	58,585	53,035
18	19,011	19,507	19,572	19,343	17,526	30,087	51,887	67,492	76,474	78,332	58,175	52,684
19	18,687	19,425	19,484	19,215	17,470	30,836	52,420	67,994	76,625	78,231	57,892	52,377
20	18,378	19,367	19,396	19,186	17,381	31,564	53,035	68,575	76,605	78,079	57,702	52,018
21	18,088	19,244	19,302	19,133	17,292	32,254	53,608	68,857	76,574	78,049	57,484	51,695
22	17,778	19,215	19,215	19,011	17,298	32,994	54,281	69,362	76,655	77,947	57,212	51,408
23	17,470	19,040	19,098	18,930	17,242	33,815	54,850	69,704	76,655	77,897	57,303	51,060
24	17,076	19,011	19,069	18,866	17,132	34,502	55,628	70,144	76,675	77,897	57,711	50,696
25	16,687	18,895	18,982	18,780	17,049	35,285	56,166	70,437	76,605	77,492	58,220	51,017
26	16,200	18,809	18,930	18,664	16,939	35,968	56,661	70,807	76,726	76,957	58,631	51,451
27	15,670	18,722	18,872	18,607	17,470	36,665	57,276	71,171	76,776	76,072	59,042	51,800
28	15,218	18,636	18,837	18,521	18,287	37,413	57,847	71,565	76,705	75,109	59,400	52,193
29	14,799	18,498	18,664	18,464		38,221	58,402	71,910	76,756	74,091	59,740	52,640
30	14,290	18,378	18,699	18,378		38,856	58,887	72,157	76,726	73,206	60,062	53,035
31	14,164		18,550	18,315		39,566		72,512		72,315	60,062	
Min	14,164	13,611	17,806	18,315	16,939	19,063	40,326	59,547	72,790	72,315	57,212	50,696
Max	19,956	19,897	19,956	19,986	18,287	39,566	58,887	72,512	76,776	78,556	71,348	60,247
EOM	14,164	18,378	18,550	18,315	18,287	39,566	58,887	72,512	76,726	72,315	60,062	53,035



#### Appendix A (37 of 38) Saint Vrain Canal below Carter Reservoir, CO

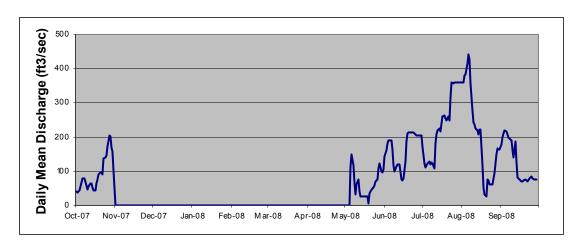
Location. --Lat 40°19'27", long 105°12'35", Larimer County, Hydrologic Unit 10190006, downstream from Carter Reservoir Dam #1, 7 miles northwest of Berthoud, Colorado, and 10 miles west of Loveland, Colorado.

Gage.-- Water-stage recorder with telephone telemetry. Data provided by the Northern Colorado Water Conservancy District. Elevation of gage is 5,590 feet from topographic map.

Remarks.-- Constructed between 1952 and 1954. The canal is 9.8 miles long and has a maximum capacity of 625 cubic feet per second. The canal is used to deliver Colorado-Big Thompson Project water and diverted native water to project share holders. Recorder was operated by Northern Colorado Water Conservancy District from 01-Oct-2007 to 30-Sep-2008. Record is complete and fair. This record contains operational data which could be subject to future revisions and changes.

Flow, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	41	0	0	0	0	0	0	0	107	206	360	165
2	38	0	0	0	0	0	0	0	143	173	360	178
3	42	0	0	0	0	0	0	0	160	123	360	198
4	45	0	0	0	0	0	0	0	180	111	379	211
5	68	0	0	0	0	0	0	0	190	116	382	219
6	79	0	0	0	0	0	0	113	190	123	416	217
7	79	0	0	0	0	0	0	150	190	130	441	208
8	79	0	0	0	0	0	0	117	163	121	426	200
9	58	0	0	0	0	0	0	67	117	125	361	192
10	48	0	0	0	0	0	0	33	100	123	278	190
11	56	0	0	0	0	0	0	60	113	107	243	164
12	63	0	0	0	0	0	0	75	120	181	236	142
13	65	0	0	0	0	0	0	42	120	207	225	187
14	52	0	0	0	0	0	0	25	120	218	220	129
15	45	0	0	0	0	0	0	25	77	225	207	83
16	45	0	0	0	0	0	0	25	73	215	223	79
17	66	0	0	0	0	0	0	25	80	241	223	73
18	75	0	0	0	0	0	0	25	129	261	121	71
19	90	0	0	0	0	0	0	25	186	263	54	71
20	97	0	0	0	0	0	0	7	210	254	32	74
21	97	0	0	0	0	0	0	35	213	250	25	75
22	90	0	0	0	0	0	0	40	213	259	75	72
23	136	0	0	0	0	0	0	49	212	250	73	70
24	139	0	0	0	0	0	0	53	212	314	60	78
25	146	0	0	0	0	0	0	58	212	359	60	83
26	172	0	0	0	0	0	0	70	208	358	60	85
27	205	0	0	0	0	0	0	75	206	358	80	79
28	202	0	0	0	0	0	0	108	206	360	93	76
29	170	0	0	0		0	0	122	206	360	148	76
30	158	0	0	0		0	0	101	206	360	167	76
31	53		0	0		0		97		360	165	
Min	38	0	0	0	0	0	0	0	73	107	25	70
Max	205	0	0	0	0	0	0	150	213	360	441	219
Mean	90	0	0	0	0	0	0	52	162	229	211	127
ac-ft	5543	0	0	0	0	0	0	3209	9626	14078	12975	7564



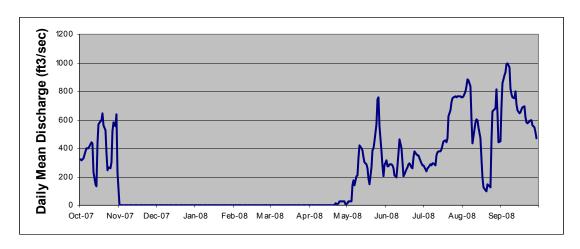
#### Appendix A (38 of 38) Colorado-Big Thompson Project, CO

Location. -- Larimer, Grand, Summit, Boulder, Weld counties in Colorado, hydrologic units 14010001, 14010002 and 10190006, 10190007, on the Colorado River, Big Thompson River and Cache La Poudre River basins.

Remarks.— This table presents a summation of all the daily deliveries of C-BT water through the Saint Vrain Canal, the Charles Hansen Supply Canal, the Dixon Canal and from the Charles Hansen Feeder Canal (it does not include metered water). The C-BT Project is a transmountain water diversion system that stores, regulates and transports water from the Colorado River Basin to the Big-Thompson River Basin. The water diverted is used for irrigation, municipal and industrial purposes, to generate hydroelectric power and to provide recreation for the public. This record contains operational data which could be subject to future revisions and changes. Period of record between 01-Oct-2007 and 30-Sep-2008. Data was provided by the Northern Colorado Water Conservancy District. Record is complete and reliable.

Total Daily Water Deliveries, Cubic Feet per Second, Daily Mean Values

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	321	0	0	0	0	0	0	8	279	284	757	450
2	319	0	0	0	0	0	0	17	315	281	760	698
3	323	0	0	0	0	0	0	25	275	253	768	854
4	326	0	0	0	0	0	0	25	275	241	800	909
5	379	0	0	0	0	0	0	25	285	257	839	930
6	399	0	0	0	0	0	0	138	285	270	881	988
7	399	0	0	0	0	0	0	175	283	286	876	1000
8	399	0	0	0	0	0	0	142	257	283	836	970
9	431	0	0	0	0	0	0	207	211	295	605	821
10	439	0	0	0	0	0	0	212	194	296	433	782
11	435	0	0	0	0	0	0	332	279	281	482	760
12	233	0	0	0	0	0	0	419	366	350	580	748
13	147	0	0	0	0	0	0	397	465	372	606	798
14	133	0	0	0	0	0	0	383	402	382	593	711
15	438	0	0	0	0	0	0	336	307	381	547	666
16	571	0	0	0	0	0	0	300	206	392	468	648
17	588	0	0	0	0	0	0	285	217	424	323	654
18	598	0	0	0	0	0	0	261	249	448	198	677
19	649	0	0	0	0	0	0	190	265	456	125	684
20	563	0	0	0	0	0	0	150	289	442	103	693
21	527	0	0	0	0	0	0	269	292	472	97	619
22	373	0	0	0	0	0	0	387	269	624	147	580
23	243	0	0	0	0	0	16	398	256	666	143	579
24	263	0	0	0	0	0	6	452	335	721	129	586
25	263	0	0	0	0	0	17	565	379	749	454	593
26	303	0	0	0	0	0	25	746	358	757	659	599
27	521	0	0	0	0	0	25	757	350	762	669	560
28	580	0	0	0	0	0	25	552	352	761	678	545
29	558	0	0	0		0	25	381	328	763	813	512
30	639	0	0	0		0	25	283	295	764	644	467
31	229		0	0		0		205		764	440	
Min	133	0	0	0	0	0	0	8	194	241	97	450
Max	649	0	0	0	0	0	25	757	465	764	881	1000
Mean	406	0	0	0	0	0	5	291	297	467	531	703
ac-ft	24923	0	0	0	0	0	324	17860	17655	28663	32581	41741



## WESTERN DIVISION – PICK-SLOAN MISSOURI BASIN PROGRAM PERTINENT RESERVOIR DATA

Reservoir	Dead Storage 1/	Active Storage 2/	Total Storage	Normal Minimum Storage	(Data in Acre-feet)  Limitation on normal minimum storage
Green Mountain	6,860	146,779	153,639	47,684	Minimum elevation for rated power output
Willow Creek	1,486	9,779	10,553	6,675	Elevation of pump canal head-works
Lake Granby	74,190	465,568	539,758	74,190	Lowest outlet elevation
Shadow Mountain	506	16,848	17,354	16,026	Minimum permissible Grand Lake elevation; 8,366 ft.
Grand Lake	3/	511	1,015	504	Legislation limits fluctuation
Marys Lake	42	885	927	308	Minimum elevation for power generation
Lake Estes	409	2,659	3,068	740	Minimum elevation to release 550 ft <sup>3</sup> /s
Pinewood Lake	416	1,765	2,181	613	Minimum elevation for power generation
Flatiron	125	635	760	324	Minimum elevation to release 550 ft <sup>3</sup> /s
Carter Lake	3,306	108,924	112,230	306	Lowest outlet elevation
Horsetooth	7,003	149,732	156,735	17,600	Elevation on highest delivery works
Total	94,343	903,373	998,220	167,970	

<sup>1/</sup> Storage capacity below elevation of lowest outlet2/ Total storage minus dead storage

<sup>3/</sup> Not determined

#### COLORADO-BIG THOMPSON PROJECT

				00	LONADO-BIG	THOMESON	KOJECI								
WATER YEA	AR 2008					Y SUMMARY VER OPERATION	ons		(A0	CRE-FEET)					
		INI	ост	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
UNDEPLETED RUNOFF ABOVE GREEN MTN.															
RESERVOIR			19,150	11,900	11,100	11,000	9,700	10,800	20,100	87,060	154,300	91,800	37,600	22,300	486,810
UNDEPLETED RUNOFF															
ABOVE DILLON RES.			9,000	6,000	5,.300	5,700	4,800	5,100	9,500	44,070	92,800	52,200	22,300	11,700	268,470
PERCENT OF TOTAL UN- DEPLETED RUNOFF ORI- GINATING ABOVE DILLON			0.470 0.50	04	0.477	0.518	0.495	0.472	0.473	0.506	0.601	0.569	0.593 0.5	25 0.551	
DEPLETIONS BY 1929 COLORADO SPRINGS RIGHT	0			0	0	0	0	0	38	156	611	337	110	58	1310
<b>DEPLETIONS BY 1948</b>															
COLORADO SPRINGS RIGHT	0			0	0	0	0	0	43	1005	6956	2832	1645	581	13,062
INFLOW TO DILLON	9,000			6,000	5,300	5,700	4,800	5,000	9,400	42,900	85,200	49,000	20,500	11,000	253,800
DILLON STORAGE (1000 AF)	25	51.8 251.8		245.1	241.8	240.0	238.2	233.5	222.2	219.8	257.6	254.1	253.5	252.1	
ROBERTS TUNNEL															
DIVERSIONS			0	100	4,500	4,260	3,500	1,500	0	9,500	24,500	21,300	7,300	1,100	77,560
DILLON OUTFLOW															
TO THE RIVER			7,800	11,500	4,100	3,200	3,000	8,300	20,600	35,700	21,900	30,200	12,600	10,100	169,000
TOTAL DEPLETIONS															
BY DENVER			1,200	-5,500	1,160	2,500	1,800	3,200	-11,200	7,100	62,700	18,700	7,800	900	83,960
RUNOFF ORIGINATING BETWEEN DILLON AND															
GREEN MTN RESERVOIR			10,300	6,100	5,900	5,400	4,910	5,900	10,800	43,730	62,820	40,320	15,680	10,800	222,660
ACTUAL INFLOW TO GREEN MTN RESERVOIR			18,000	17,500	9,900	8,500	7,900	14,050	31,200	78,800	84,100	69,900	28,100	20,700	388,650
GREEN MTN RESERVOIR															
STORAGE (1000 AF)	10	08.9	91.7	91.0	88.3	84.4	75.6	64.1	65.4	95.9	144.4	151.4	147.3	109.5	
TOTAL GREEN MTN OUTFLOW		:	34,900	18,100	12,600	12,400	16,600	25,500	29,800	47,700	34,800	61,900	31,400	57,900	383,600

12,400

34,900

18,100

12,600

16,600

TABLE 3
PAGE 1 OF 3

# PICK-SLOAN MISSOURI BASIN PROGRAM WESTERN DIVISION WATER AND POWER SYSTEM

#### COLORADO-BIG THOMPSON PROJECT

#### 2008 ACTUAL OPERATIONS

		VATER II	N 1000 ACR	E-FEET	* *	** *:	** *	*** *	** *	* *	ENERGY IN GWH		
OR	INITIAL TOTAL	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
GREEN MOUNTAIN RESERVOIR													
Depleted Watershed Inflow	388.7	18.0	17.5 18.1	9.9	8.5	7.9	14.1	31.2	78.8	84.1	69.9	28.1	20.7
Turbine Release	367.1	34.9		12.6	12.4	16.6	25.5	29.8	47.7	34.8	49.0	31.4	54.3
Bypass Spill End of Month Content Kwh/AF Generation	16.3 0.0 108.9 63.9	0.0 0.0 91.7 169.0 5.9	0.0 0.0 0 91.0 154.7 2.8	0.0 .0 0 88.3 127.0 1.6	0.0 .0 0 84.4 129.0 1.6	0.0 .0 0 75.6 150.6 2.5	0.0 .0 64.1 156.9 4.0	0.0 0.0 65.4 154.4 4.6	0.0 0.0 0 95.9 165.6 7.9	0.0 .0 144.4 175.3 6.1	12.8 0.0 151.4 202.0 9.9	0.0 0.0 147.3 207.0 6.5	3.5 0.0 109.5 193.4 10.5
WILLOW CREEK RESERVOIR													
Inflow	79.6	2.2	1.5	1.3	1.1	0.9	1.0	4.1	34.0	24.1	5.7	2.3	1.4
Release to River	18.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	9.9	3.5	1.1	0.2	1.2
Pumped to Granby End of Month Content	61.1 8.5	1.0 9.1	2.4 7.6	0.0 8.5	0.0 9.1	0.0 9.6	2.4 7.6	2.9 8.2	23.3 8.6	20.1 8.9	4.0 9.2	2.1 9.0	2.9 6.2
Pump Energy  GRANBY - SHADOW MOUNTAIN - GRA	12.9	0.2	0.5	0.0	0.0	0.0	0.5	0.6	5.0	4.3	0.8	0.4	0.6
Natural Watershed Inflow	274.3	9.8	3.9	5.0	4.6	4.0	3.7	10.2	63.2	105.3	38.7	16.6	9.3
Total Inflow into Granby	289.5	8.1	6.6	5.3	4.5	3.8	5.9	13.1	85.5	107.0	27.1	13.6	9.0
Granby Fish Release	26.6	1.8	1.2	1.3	1.2	1.2	1.2	1.2	3.5	4.8	5.0	1.9	2.3
Granby Seepage Granby Spill	3.3 0.0	0.3 0.0	0.3	0.2 0.0 0.	0.2	0.2	0.2	0.2 0.0	0.2 0.0 0.0	0.2	0.4 0.0	0.5 0.0	0.4 0.0
• •													
Adams Tunnel Granby End of Month content	286.9 376.3	8.9 374.3	27.7 351.1	22.6 332.0	20.3 314.8	15.0 302.3	26.9 279.9	26.4 267.0	28.5 338.5	28.4 437.0	33.1 437.1	16.7 433.9	32.4 408.3
SM-GL End of Month Content	17.6	17.7	17.7	17.7	17.7	17.8	17.7	17.8	17.3	17.9	17.9	17.8	17.8
Pumped from Granby	212.2	6.7	28.0	22.9	20.2	14.9	26.7	23.6	8.3	0.4	18.5	12.2	29.8
Granby Pump Kwh/AF		164.2	160.7	165.9	168.3	174.5	176.0	178.0	180.7	250.0	151.4	155.7	154.4
Granby Pump Energy 35.2		1.1	4.5	3.8	3.4	2.6	4.7	4.2	1.5	0.1	2.8	1.9	4.6

#### PICK-SLOAN MISSOURI BASIN PROGRAM WESTERN DIVISION WATER AND POWER SYSTEM COLORADO-BIG THOMPSON PROJECT

2008 ACTUAL OPERATIONS

	W	ATER IN 10	00 ACRE-F	EET	*	** **	* ***	***	*	* *	ENERGY IN G	swH	
OR	INITIAL TOTAL	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MARYS LAKE – ESTES – FLATIROI	N												
	•												
Adams Tunnel Water	286.9	8.9	27.7	22.6	20.3	15.0	26.9	26.4	28.5	28.4	33.1	16.7	32.4
Marys Lake Generation	46.2	0.1	1.6	4.0	3.5	2.4	4.9	4.8	5.2	5.1	6.0	2.7	5.9
Estes Generation	126.1	3.7	12.4	9.6	8.1	6.6	12.0	11.5	12.8	12.5	14.9	7.5	14.5
Divertible Big-Thompson 43.0		0.4	0.3	0.0	0.0	0.0	0.0	0.3	5.1	22.1	10.7	2.6	1.5
Diverted Big-Thompson Water	1.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	1.3	0.0
Olympus Tunnel	213.3	6.6	14.5	16.7	20.0	14.9	26.9	25.2	27.7	30.7	30.1	15.0	22.9
Pole Hill Generation 174.6		3.9	9.4	10.9	13.6	9.4	19.3	18.0	20.1	22.4	21.6	10.0	16.0
Flatiron 1 & 2 Generation 214.2		5.3	12.7	13.6	15.8	10.5	23.9	22.8	26.2	25.4	24.3	13.6	20.1
Flatiron 3 Turbine Release	0.01	0.0	0.0	0.0 .01		0.0 0.0	)	0.0	0.0	0.0	0.0	0.0 0.0	
Flatiron 3 Kwh/AF Gen.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Flatiron 3 Generation	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
Flatiron 3 Pumping	138.5	4.0	7.3	2.6	2.3	2.5	24.5	23.3	22.0	20.2	16.4	7.1	6.3
Flatiron 3 Kwh/AF Pump	.00.0	250.0	246.6	230.8	260.9	240.0	261.2	287.6	309.1	316.8	323.2	295.8	285.7
Flatiron 3 Pump Energy	40.1	1.0	1.8	0.6	0.6	0.6	6.4	6.7	6.8	6.4	5.3	2.1	1.8
CARTER LAKE													
Pumped from Flatiron	138.5	4.0	7.3	2.6	2.3	2.5	24.5	23.3	22.0	20.2	16.4	7.1	6.3
Release to Flatiron	0.01	0.0	0.0	0.0	.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Irrigation Delivery	90.8	9.3	2.3	2.1	2.2	1.4	2.2	2.6	7.2	14.7	19.7	16.6	10.5
Evaporation & Seepage	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.5	0.2	0.2
End of Month Content	20.2 14	.2	18.4 18	.6	18.3 19	9.1	40.3	59.5	72.8	76.7	71.3	60.2	53.4
BIG THOMPSON POWERPLANT													
Diverted Dille Tunnel Water	69.7	1.6	12.9	5.8	0.0	0.0	0.0	1.0	0.9	10.7	18.7	7.3	10.8
Irrigation Delivery	30.56	1.7	0.01	0.01	0.02	0.01	0.01	0.4	5.8	3.5	2.9	4.5	11.7
Turbine Release	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	15.3	7.2	10.4
Generation	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	2.3	0.9	1.5
HORSETOOTH RESERVOIR													
Hansen Feeder Canal Inflow 121.8		3.4	20.6	20.3	17.1	12.0	2.2	1.8	3.3	5.3	14.7	7.1	14.0
Irrigation Delivery	109.7	20.2	1.1	1.0	1.0	1.1	1.3	2.1	13.7	8.6	16.3	17.9	25.4
Evaporation	4.0 0.2	2	0.1 0.0	)	0.0 0.	0	0.1	0.6	0.6	0.7	0.8	0.5	0.4
End of Month Content	80.6	61.8	81.4	100.8	116.9	127.5	127.4	125.8	113.6	110.8	106.7	93.6	80.0
TOTAL CBT DELIVERY	231.0	31.2	3.4	3.1	3.2	2.5	3.5	5.1	26.7	26.8	38.9	39.0	47.6

TABLE 3
PAGE 3 OF 3

#### PICK-SLOAN MISSOURI BASIN PROGRAM WESTERN DIVISION WATER AND POWER SYSTEM COLORADO-BIG THOMPSON PROJECT

#### 2008 ACTUAL OPERATIONS

	WATER IN 1000 ACRE-FEET			EET	* *	* **	* ***	* *	* *	**	ENERGY IN G	WH	
OR _	INITIAL TOTAL	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
BASE GENERATION													
Green Mountain Flatiron 3 Big Thompson	63.9 0.0 5.5	5.9 0.0 0.0	2.8 0.0 0.0	1.6 0.0 0.0	1.6 0.0 0.0	2.5 0.0 0.0	4.0 0.0 0.0	4.6 0.0 0.0	7.9 0.0 0.0	6.1 0.0 0.8	9.9 0.0 2.3	6.5 0.0 0.9	10.5 0.0 1.5
TOTAL	69.4	5.9	2.8	1.6	1.6	2.5	4.0	4.6	7.9	6.9	12.2 7.4		12.0
LOAD FOLLOWING GENERATION													
Marys Lake	46.2	0.1	1.6	4.0	3.5	2.4	4.9	4.8	5.2	5.1	6.0	2.7	5.9
Estes 126.1		3.7	12.4	9.6	8.1	6.6	12.0	11.5	12.8	12.5 14.9		7.5	14.5
Pole Hill Flatiron 1 & 2 TOTAL	174.6 214.2 561.1	3.9 5.3 13.0	9.4 12.7 36.1	10.9 13.6 38.1	13.6 15.8 41.0	9.4 10.5 28.9	19.3 18.0 23.9 60.1	22.8 57.1	20.1 26.2 64.3	22.4 25.4 65.4	21.6 10.0 24.3 66.8	13.6 33.8	16.0 20.1 56.5
PUMP ENERGY													
Willow Creek Granby 35.2 Flatiron 3 TOTAL	12.9 40.1 88.2	0.2 1.1 1.0 2.3	0.5 4.5 1.8 6.8	0.0 3.8 0.6 4.4	0.0 3.4 0.6 4.0	0.0 2.6 0.6 3.2	0.5 4.7 6.4 11.6	0.6 4.2 6.7 11.5	5.0 1.5 6.8 13.3	4.3 0.1 6.4 10.8	0.8 2.8 5.3 8.9	0.4 1.9 2.1 4.4	0.6 4.6 1.8 7.0
TOTAL GENERATION TOTAL GENERATION MINUS	630.5	18.9	38.9	39.7	42.6	31.4	64.1	61.7	72.2	72.3	79.0	41.2	68.5
PUMP	542.3	16.6	32.1	35.3	38.6	28.2	52.5	50.2	58.9	61.5	70.1	36.8	61.5

# COLORADO-BIG THOMPSON PROJECT FLOOD DAMAGE PREVENTED IN WATER YEAR 2008

	Cumulative Total Prior to WY2007	WY2008	Cumulative Total Current
Granby, Willow Creek, Shadow Mountain and Grand Lake	\$288,200	\$8000.00	\$296,200
Green Mountain	\$105,100	\$1,000.00	\$106,100
Total	\$393,300	\$9,000.00	\$402,300

CBTAOP V1.10 Run: 19-Nov-2008 12:33 Most Probable Plan (Oct=80% Quota; Nov-Sep=70% Quota)

#### COLORADO-BIG THOMPSON MONTHLY OPERATIONS

#### HYDROLOGY OPERATIONS

24.6

Green Mtn Reservoir		In	itial Cont		09.5 kaf	Ma	aximum Co		53.6 kaf	М	inimum Co		6.0 kaf	
	2008	Oct	Elev Nov	7926 Dec	5.79 ft Jan	Feb	El Mar	.ev 794: Apr	9.91 ft May	Jun		.ev 779! Aug	5.72 ft Sep	
Total		000		200	-				1	0411		9	Jop	
_														
Dillon Inflow 215.9	kaf	8.2	6.1	4.4	4.0	3.6	4.3	8.2	40.5	74.8	38.2	15.8	7.8	
Dillon-Grn Mtn Gain 165.0	kaf	8.8	6.4	4.2	3.8	3.2	4.1	8.8	28.3	48.9	26.8	13.3	8.4	
Undepleted Inflow 380.9	kaf	17.0	12.5	8.6	7.8	6.8	8.4	17.0	68.8	123.7	65.0	29.1	16.2	
Depletion 94.2	kaf	2.1	0.7	0.0	0.3	-0.3	0.0	4.6	36.3	23.3	16.4	7.4	3.4	
Depleted Inflow 286.7	kaf	14.9	11.8	8.6	7.5	7.1	8.4	12.4	32.5	100.4	48.6	21.7	12.8	
Turbine Release 290.8	kaf	48.5	15.5	11.5	10.4	9.5	11.7	10.5	6.1	42.2	40.8	39.9	44.2	
Spill/Waste 0.0	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	
Total River Release 290.8	kaf	48.5	15.5	11.5	10.4	9.5	11.7	10.5	6.1	42.2	40.8	39.9	44.2	
Min Release	cfs	789	260	187	169	171		176		693		649	743	
Total River Release	cfs	789	260	187	169	171	190	176	99	709	664	649	743	
Evaporation 4.1	kaf	0.3	0.1	0.0	0.0	0.0	0.2	0.3	0.5	0.8	0.8	0.6	0.5	
End-Month Targets	kaf	75.6	71 0	<b>60.0</b>		62.6	60.1	75.0		145.0		122.0	101 2	
End-Month Content End-Month Elevation	kaf ft	75.6 7903.74	71.8 7900.71 78	68.9 98.32	66.0 7895.85	63.6 7893.74		61.7 7892.02		145.0 7945.78			101.3 7921.78	
Willow Crk Reservoi	_	т.	itial Cont		6.2 kaf	W	aximum Co		10.2 kaf		inimum Co	+	5.0 kaf	
willow Crk Reservoir	-	111	Elev		0.2 Kar L.82 ft	M			8.83 ft	M		ev 810		
mata1	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Total														
- Native Inflow 56.6	kaf	1.2	1.2	0.8	0.8	0.7	1.0	3.6	22.7	17.6	4.0	1.6	1.4	
Min Release 11.5	kaf	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	
Spill/Bypass 0.0	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	
Total River Release 11.5	kaf	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	
Pumped to Granby 41.8	kaf	0.0	0.0	0.0	0.0	0.0	2.0	2.0	19.3	13.9	2.7	1.0	0.9	
Evaporation 0.5	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	
End-Month Targets	kaf		7.2	<i>c</i> -				7.2		10.0		2 2	9.0	
End-Month Content End-Month Elevation	kaf ft	5.9 8110.16	6.3 8112.35 81	6.7 14.44	7.1 8116.42	7.4 8117.83		7.2 8116.90		10.0 8128.14	9.0 8124.50	9.0 8124.50	9.0 8124.50	
Lake Granby		In	itial Cont	40	08.3 kaf	Ма	aximum Co	ont 5	36.1 kaf	м	inimum Co	ont '	76.5 kaf	
	2008	Oct	Elev Nov	8260 Dec	0.73 ft Jan	Feb		ev 827. Apr	9.50 ft May	Jun		ev 818. Aug		
Total								_	_			_	_	
-														
Native inflow 93.9				1.4										
Rels frm Shadow Mtn 77.2				2.8										
Pump frm Windy Gap 30.0				0.0										
Pump frm Willow Crk 41.8			0.0	0.0										
Total Inflow 242.9	kaf	4.5	4.1	4.2	2.6	2.3	4.7	8.0	72.4	107.1	19.4	8.2	5.4	
Min River Release	kaf	1.4	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0	

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
Total River Release 24.6	kaf	1.4	1.2	1.2	1.2	1.1	1.2	1.2	4.6	4.7	3.3	2.5	1.0
Pumped to Shadow Mtn 183.4	kaf	29.4	4.7	24.4	32.9	25.8	28.1	11.5	0.0	0.0	4.5	7.2	14.9
Evaporation 15.5	kaf	1.4	0.6	0.2	0.0	0.0	0.7	1.2	2.0	2.7	2.7	2.1	1.9
Seepage loss 4.0	kaf	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4
End-Month Content	kaf	380.3	377.6	355.7		299.0							
End-Month Elevation	ft	8256.23	8255.79	8252.14	8246.66	8242.18	8237.37	8236.18	8248.20	8264.42	8265.71	8265.11	8263.14
Shadow Mtn		Iı	nitial Co	ont 1 Lev 8366	17.8 kaf 6.68 ft	Ma	aximum Co		18.4 kaf 7.00 ft		inimum C	ont lev 836	16.6 kaf 6.02 ft
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total													
-													
Native inflow 140.9	kaf	3.5	2.0	2.1	2.1	1.9	2.2	7.2	35.0	53.8	20.4	7.1	3.6
Pumped from Granby 183.4	kaf	29.4	4.7	24.4	32.9	25.8	28.1	11.5	0.0	0.0	4.5	7.2	14.9
Total Inflow 324.3	kaf	32.9	6.7	26.5	35.0	27.7	30.3	18.7	35.0	53.8	24.9	14.3	18.5
Min River Release	kaf	2.2	2.7	2.8	1.2	1.1	1.2	1.2	1.2	3.0	3.1	2.5	2.1
Spill/Bypass 52.9	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	39.4	0.0	0.0	0.0
Total River Release 77.2	kaf	2.2	2.7	2.8	1.2	1.1	1.2	1.2	14.7	42.4	3.1	2.5	2.1
Adams Tunnel Flow 242.4	kaf	30.3	3.8	23.6	33.8	26.6	28.8	17.1	19.6	10.6	21.1	11.2	15.9
Evaporation 4.7	kaf	0.4	0.2	0.1	0.0	0.0	0.3	0.4	0.7	0.8	0.7	0.6	0.5
End-Month Content End-Month Elevation	kaf ft		17.8 8366.68			17.8 8366.68							

TABLE 5A PAGE 2 of 5

Adams Tunnel Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Max Tunnel Capacity 381.6		33.8	16.4	33.8	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	
Actual delivery 242.4	kaf	30.3	3.8	23.6	33.8	26.6	28.8	17.1	19.6	10.6	21.1	11.2	15.9	
% max delivery	용	90	23	70	100	87	85	52	58	32	62	33	49	
Big T @ Lake Estes Total		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
_														
Big Thompson inflow 87.5	kaf	2.6	1.8	1.2	1.0	0.7	1.0	3.3	15.1	32.2	16.4	8.4	3.8	
Min river release 45.3	kaf	3.1	1.5	1.5	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	3.7	
Act river release 45.5	kaf	2.6	1.5	1.2	1.0	0.7	1.0	2.2	6.9	10.1	7.7	6.9	3.7	
Skim water availabl	e kaf	0.0	0.3	0.0	0.0	0.0	0.0	1.1	8.2	24.8	8.7	1.5	0.1	
Skim water diverted	l kaf	0.0	0.3	0.0	0.0	0.0	0.0	1.1	8.2	22.1	8.7	1.5	0.1	
% skim diverted	%		100					100	100	89	100	100	100	
Irrigation demand 0.0	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	
Irrigation delivery 0.0	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	
Total river release 45.5	kaf	2.6	1.5	1.2	1.0	0.7	1.0	2.2	6.9	10.1	7.7	6.9	3.7	
Olympus Tunnel Total		0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Max Tunnel Capacity 369.8	kaf	30.4	16.4	25.4	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	
Actual delivery 284.4	kaf	30.3	4.1	23.6	33.8	26.6	28.8	18.2	27.8	32.7	29.8	12.7	16.0	
	%	100	25	93	100	87	85	56	82	100	88	38	49	

Seepage and Evap	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 Inflow to Flatiron 282.7	kaf	30.1	3.9	23.4	33.7	26.5	28.7	18.1	27.7	32.6	29.7	12.5	15.8
Carter Lake		In	nitial Cont		3.4 kaf .36 ft	Ma	ximum Cor		.2.2 kaf 3.98 ft	Mi	nimum Co		1.2 kaf .99 ft
<b>Fotal</b>	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
- Pump from Elatinon	kaf	8.4	0.0	18.6	19.8	16.2	8.2	0.0	8.3	3.7	4.2	0.0	0.0
Pump from Flatiron 37.4 Release to Flatiron		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	Kai	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	0.2	0.1	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.4	0.3	0.3
Geepage loss L.7	kaf	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1
Ind-Month Targets Ind-Month Content Ind-Month Elevation	kaf kaf ft	50.8 50.8 5698.39	49.0 49.1 5696.42 5	66.2 66.2 715.28	84.7 84.3 5733.40	99.4 98.9 5747.09	105.0 105.0 5752.61 5	102.0 99.0 5747.18	107.0 99.6 5747.73	93.0 93.0 57 <b>4</b> 1.65	80.6 80.6 5729.82	61.0 61.2 5709.98	49.0 49.0 5696.30
rrigation demand	kaf	7.5	0.0	0.0	0.0	0.0	0.0	3.3	2.7	4.3	9.8	13.3	7.2
8.1 etered delivery	kaf	2.6	1.1	1.0	1.2	1.1	1.3	1.7	2.4	2.9	3.8	3.6	2.9
5.6 indy Gap demand	kaf	0.6	0.4	0.4	0.4	0.4	0.4	0.5	2.0	2.4	2.4	2.1	1.7
3.7 otal demand	kaf	10.7	1.5	1.4	1.6	1.5	1.7	5.5	7.1	9.6	16.0	19.0	11.8
7.4 otal delivery	kaf	10.7	1.5	1.4	1.6	1.5	1.7	5.5	7.1	9.6	16.0	19.0	11.8
7.4 required delivery	%	100	100	100	100	100	100	100	100	100	100	100	100
hortage .0	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
ansen Canal 930	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Minimum flow	kaf	1.5	1.5	1.5	6.1	5.6	6.1	1.5	1.5	1.5	1.5	1.5	1.5
1.3 aximum flow	kaf	57.2	55.3	57.2	57.2	51.6	57.2	27.7	57.2	55.3	57.2	57.2	55.3
45.6 ctual flow 95.3	kaf	21.7	3.9	4.8	13.9	10.3	20.5	18.1	19.4	28.9	25.5	12.5	15.8
ille Tunnel otal	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
ig T @ Canyon Mouth	n kaf	4.0	2.3	1.5	1.4	1.3	1.8	5.6	21.6	35.2	21.8	10.9	5.1
12.5 ess Estes Skim	kaf	0.0	0.3	0.0	0.0	0.0	0.0	1.1	8.2	22.1	8.7	1.5	0.1
2.0 ig 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 andy Ditch release	kaf	1.2	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.8	2.9	1.7
1.2 ater available	kaf	2.8	2.0	1.5	1.4	1.3	1.8	3.3	12.2	11.9	11.3	6.5	3.3
9.3 ater diverted	kaf	2.8	0.0	0.0	0.0	0.0	0.0	3.3	12.2	0.0	11.3	6.5	3.3
9.4 diverted	ક	100						100	100		100	100	100
rifurcation Works		0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
els from Flatiron 95.3	kaf	21.7	3.9	4.8	13.9	10.3	20.5	18.1	19.4	28.9	25.5	12.5	15.8
95.3 els to 550 Canal 22.5	kaf	11.3	3.6	4.8	13.9	10.3	20.5	16.3	9.0	4.9	13.4	5.1	9.4
ig T irrigation	kaf	10.4	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.4	5.9	6.3
ille Tunnel 9.4	kaf	2.8	0.0	0.0	0.0	0.0	0.0	3.3	12.2	0.0	11.3	6.5	3.3
ot rels to river 12.2	kaf	13.2	0.3	0.0	0.0	0.0	0.0	5.1	22.6	24.0	23.4	13.9	9.7
rrigation demand 9.7	kaf	10.4	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.0	5.5	6.0
ig T irr (Estes) .0	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
indy Gap demand .1	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.3
otal requirement	kaf	10.4	0.0	0.0	0.0	0.0	0.0	0.7	2.2	1.9	3.4	5.9	6.3
0.8		10.4	0.0	0.0									

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Hansen Canal 550 Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Inflow from Flatiron 122.5	n kaf	11.3	3.6	4.8	13.9	10.3	20.5	16.3	9.0	4.9	13.4	5.1	9.4	
Maximum flow 346.0	kaf	16.0	30.9	32.0	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	30.9	
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	
Irrigation demand 6.0	kaf	0.7	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.4	1.0	1.0	0.9	
Irrigation delivery 6.0	kaf	0.7	0.2	0.2	0.3	0.2	0.3	0.3	0.5	0.4	1.0	1.0	0.9	
Minimum flow 20.9	kaf	1.5	1.5	1.5	3.1	2.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Rels to Horsetooth 114.1	kaf	10.4	3.2	4.4	13.4	9.9	20.0	15.8	8.3	4.3	12.2	3.9	8.3	
Horsetooth Reservoi	r	Ir	nitial Con Ele		0.0 kaf	Ma	aximum Co		6.7 kaf	M	inimum C		5.0 kaf 7.06 ft	
<b>Fotal</b>	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
 -														
Inflow 114.1	kaf	10.4	3.2	4.4	13.4	9.9	20.0	15.8	8.3	4.3	12.2	3.9	8.3	
Total irr delivery 109.3	kaf	18.5	1.6	1.6	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	
Evaporation loss 4.1	kaf	0.3	0.1	0.0	0.0	0.0	0.2	0.4	0.7	0.8	0.7	0.5	0.4	
Seepage loss L.7	kaf	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1	
End-Month Targets End-Month Content	kaf kaf		72.9 72.9	75.6 75.6	87.0 86.8	94.7 94.7	112.4 112.4	125.0 125.0	125.0 125.0	120.0 120.0	110.0 110.0	87.0 87.0	79.0 79.0	
End-Month Elevation			5380.67 5											
Irrigation demand 67.0	kaf	15.6	0.0	0.0	0.0	0.0	0.0	0.1	3.5	4.1	13.8	19.5	10.4	
Metered delivery 34.3	kaf	2.5	1.2	1.2	1.6	1.5	1.6	2.1	3.5	3.8	6.0	5.3	4.0	
Windy Gap demand 8.0	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.5	1.4	
Total demand 109.3	kaf	18.5	1.6	1.6	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	
Total irr delivery	kaf	18.5	1.6	1.6	2.0	1.9	2.0	2.6	7.4	8.3	21.3	26.3	15.8	
% required delivery Shortage 0.0	% kaf		100 0.0	100 0.0	100 0.0	100 0.0	100 0.0	100 0.0	100 0.0	100 0.0	100 0.0		100 0.0	
Total CBT Delivery 210.7	kaf	39.3	2.5	2.4	3.1	2.8	3.2	8.2	14.8	17.4	37.4	48.2	31.4	
Windy Gap Ownership Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Accrual 27.0	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	13.5	0.0	0.0	0.0	
Total release 22.8	kaf	1.0	0.8	0.8	0.8	0.8	0.8	0.9	2.4	2.8	4.3	4.0	3.4	
Spill 0.0	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	
End-month Ownership	kaf	58.5	57.7	56.9	56.1	55.3	54.5	53.6	64.7	75.4	71.1	67.1	63.7	
PUMPING AND GENERAT														
Green Mtn Gen Total	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	

- Max Generation 181.482	gwh	18.600	18.000	9.300	9.300	8.272	8.969	17.241	18.600	18.000	18.600	18.600	18.000	
Generation 54.836	gwh	8.804	2.607	1.906	1.702	1.536	1.867	1.668	1.030	8.235	8.561	8.273	8.647	
% Max Generation	ક	47	14	20	18	19	21	10	6	46	46	44	48	
Ave kwh/af		182	168	166	164	162	160	159	169	195	210	207	196	
Willow Crk Pumping Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Maximum pumping 245.7	kaf	27.7	26.8	0.0	0.0	0.0	27.7	26.8	27.7	26.8	27.7	27.7	26.8	
Actual pumping	kaf	0.0	0.0	0.0	0.0	0.0	2.0	2.0	19.3	13.9	2.7	1.0	0.9	
41.8 Pump energy 8.904	gwh	0.000	0.000	0.000	0.000	0.000	0.426	0.426	4.111	2.961	0.575	0.213	0.192	
% max pumping Average kwh/af	8						7 213	7 213	70 213	52 213	10 213	4 213	3 213	
Lake Granby Pumping Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Maximum pumping 434.4	kaf	36.9	35.7	36.9	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	35.7	
Actual pumping 183.4	kaf	29.4	4.7	24.4	32.9	25.8	28.1	11.5	0.0	0.0	4.5	7.2	14.9	
Pump energy 27.902	gwh	4.351	0.700	3.636	5.001	4.025	4.468	1.863	0.000	0.000	0.653	1.044	2.161	
<pre>% max pumping Average kwh/af</pre>	%	80 148	13 149	66 149	89 152	77 156	76 159	32 162			12 145	20 145	42 145	
-								102				143	143	
Marys Lake Gen Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
-														
Adams Tunnel Flow Max generation 58.600	kaf gwh	30.3 5.380	3.8 0.000	23.6 0.000	33.8 6.060	26.6 5.400	28.8 6.060	17.1 5.840	19.6 6.060	10.6 5.840	21.1 6.060	11.2 6.060	15.9 5.840	
Generation 38.100	gwh	5.360	0.000	0.000	6.060	4.720	5.160	3.020	3.520	1.820	3.720	1.940	2.780	
% Max Generation Ave kwh/af	%	100 177			100 179	87 177	85 179	52 177	58 180	31 172	61 176	32 173	48 175	
Lake Estes Gen Total	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
-														
Adams Tunnel Flow Max generation	kaf gwh	30.3 14.920	3.8 14.450	23.6 14.920	33.8 11.940	26.6 10.060	28.8 10.450	17.1 9.660	19.6 9.980	10.6 10.060	21.1 14.920	11.2 14.920	15.9 14.450	
150.730 Generation 100.840	gwh	13.350	1.620	10.400	11.940	10.060	10.450	7.840	8.740	4.700	9.340	5.040	7.360	
% Max Generation	%	89	11	70	100	100	100	81	88	47	63	34	51	

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Pole Hill Gen 2008 Nov Total Olympus Tunnel flow kaf 30.3 4.1 23.6 33.8 26.6 28.8 18.2 27.8 32.7 29.8 12.7 16.0 284.4 gwh 22.720 0.000 5.750 25.260 22.800 25.260 24.460 25.260 24.460 25.260 25.260 24.460 Max generation 250.950 Generation 10.200 0.000 4.640 10.200 9.240 10.200 9.880 10.200 9.880 10.200 103.970 % Max Generation
Ave kwh/af 45 81 40 41 40 40 40 40 40 37 40 337 546 302 347 354 543 367 302 342 744 618 Flatiron 1&2 Gen 2008 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Total Inflow to Flatiron kaf 30.1 3.9 23.4 33.7 26.5 28.7 18.1 27.7 32.6 29.7 12.5 282.7 gwh 12.050 0.000 5.580 12.050 10.880 12.050 11.690 12.050 11.690 12.050 12.050 12.050 11.690 Max generation 123.830 Generation gwh 12.050 0.000 5.580 12.050 10.880 12.050 11.690 12.050 11.690 12.050 11.150 11.690 122.930 % Max Generation Ave kwh/af 100 100 100 100 100 100 100 100 100 93 100

Flatiron 3 Pump/Gen	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Maximum pumping	kaf	9.3	0.0	20.2	20.1	16.3	16.7	0.0	8.5	16.9	18.6	20.7	22.1	
169.4 Pump from Flatiron	kaf	8.4	0.0	18.6	19.8	16.2	8.2	0.0	8.3	3.7	4.2	0.0	0.0	
87.4 Pump energy 28.511	gwh	2.335	0.000	5.320	6.277	5.686	3.075	0.000	3.054	1.336	1.428	0.000	0.000	
% max pumping Average kwh/af	%	90 278		92 286	99 317	99 351	49 375		98 368	22 361	23 340			
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 Total	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Total release	kaf	13.2	0.3	0.0	0.0	0.0	0.0	5.1	22.6	24.0	23.4	13.9	9.7	
112.2 Turbine release	kaf	13.2	0.0	0.0	0.0	0.0	0.0	5.1	22.6	23.9	23.4	13.9	9.7	
111.8 Wasteway release	kaf	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	
0.4 Max generation 27.160	gwh	3.940	0.000	0.000	0.000	0.000	0.000	3.800	3.940	3.800	3.940	3.940	3.800	
Generation 16.900	gwh	1.940	0.000	0.000	0.000	0.000	0.000	0.520	3.620	3.800	3.780	2.000	1.240	
% Max Generation Ave kwh/af	%	49 147						14 102	92 160	100 159	96 162	51 144	33 128	
PROJECT GENERATION														
Project Generation Total	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Base Generation: Big Thompson	gwh	1.940	0.000	0.000	0.000	0.000	0.000	0.520	3.620	3.800	3.780	2.000	1.240	
16.900 Green Mtn	gwh	8.804	2.607	1.906	1.702	1.536	1.867	1.668	1.030	8.235	8.561	8.273	8.647	
54.836 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 71.736	gwh	10.744	2.607	1.906	1.702	1.536	1.867	2.188	4.650	12.035	12.341	10.273	9.887	
Load Following Gene Marys Lake	ration gwh	ı: 5.360	0.000	0.000	6.060	4.720	5.160	3.020	3.520	1.820	3.720	1.940	2.780	
38.100 Lake Estes	-	13.350	1.620	10.400	11.940	10.060	10.450	7.840	8.740	4.700	9.340	5.040	7.360	
100.840 Pole Hill	-	10.200	0.000		10.200		10.200		10.200		10.200	9.450	9.880	
103.970 Flatiron 1,2	-	12.050	0.000							11.690				
122.930 Total	-	40.960								28.090				
365.840														
Total generation 437.576 Total max generation	-	51.704 77.610								40.125 73.850				
792.752	-													
Project Pump Energy Total		0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
- Granby	gwh	4.351	0.700	3.636	5.001	4.025	4.468	1.863	0.000	0.000	0.653	1.044	2.161	
27.902 Willow Creek	gwh	0.000	0.000	0.000	0.000	0.000	0.426	0.426	4.111	2.961	0.575	0.213	0.192	
8.904 Flatiron 3	gwh	2.335	0.000	5.320	6.277	5.686	3.075	0.000	3.054	1.336	1.428	0.000	0.000	
28.511 Total pump energy 65.317	gwh	6.686	0.700	8.956	11.278	9.711	7.969	2.289	7.165	4.297	2.656	1.257	2.353	
Total net generation 372.259	n gwh	45.018	3.527	13.570	30.674	26.725	31.758	32.329	31.995	35.828	44.995	36.596	39.244	
Release Flexibility														
Total			Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	

Adams Tunnel	Min k	3.8	23.6	33.8	26.6	28.8	17.1	19.6	10.6	21.1	11.2	15.9
Adams Tunnel	Max k	3.8	23.6	33.8	26.6	28.8	17.1	19.6	10.6	21.1	11.2	15.9
Marys Lake Marys Lake	Min g Max g	0.000	0.000	6.060 6.060	4.720 4.720	5.160 5.160	3.020 3.020	3.520 3.520	1.820 1.820	3.720 3.720	1.940 1.940	2.780 2.780
Lake Estes	Min g	1.620	10.400	11.940	10.060	10.450	7.840	8.740	4.700	9.340	5.040	7.360
Lake Estes	Max g	1.620	10.400	11.940	10.060	10.450	7.840	8.740	4.700	9.340	5.040	7.360
Olympus Tunnel	Min k	4.1	23.6	33.8	26.6	28.8	18.2	27.8	32.7	29.8	12.7	16.0
Olympus Tunnel	Max k	4.1	23.6	33.8	26.6	28.8	18.2	27.8	32.7	29.8	12.7	16.0
Pole Hill Pole Hill	Min g Max g	0.000	5.750 5.750	25.260 25.260	19.880 19.880	21.540 21.540	13.940 13.940	20.760 20.760	24.460 24.460	22.260 22.260	9.590 9.590	12.100 12.100
Flatiron 1&2 Flatiron 1&2	Min g Max g	0.000	5.580 5.580	12.050 12.050	10.880 10.880	12.050 12.050	11.690 11.690	12.050 12.050	11.690 11.690	12.050 12.050	11.150 11.150	11.690 11.690

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Load following	Min gwh	53.400	1.620	21.730	55.310	45.540	49.200	36.490	45.070	42.670	47.370	27.720	33.930
Load following	Max gwh	53.400	1.620	21.730	55.310	45.540	49.200	36.490	45.070	42.670	47.370	27.720	33.930
Total project	Min gwh	64.144	4.227	23.636	57.012	47.076	51.067	38.678	49.720	54.705	59.711	37.993	43.817
Total project	Max gwh	64.144	4.227	23.636	57.012	47.076	51.067	38.678	49.720	54.705	59.711	37.993	43.817
	_												
GENERATION CAPAC	ITY AND D	URATION											
Project Generation	on 2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Base Generation:													
Green Mtn	mw	11.8	3.6	2.6	2.3	2.3	2.5	2.3	1.4	11.4	11.5	11.1	12.0
Flatiron 3	mw												
Big Thompson	mw	2.6						0.7	4.9	5.3	5.1	2.7	1.7
Total base load	d mw	14.4	3.6	2.6	2.3	2.3	2.5	3.0	6.3	16.7	16.6	13.8	13.7
Load Following G	eneration	:											
Marys Lake													
Min Capacity	mw	0.8	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Duration	hr/d	1.6	16.2	6.1	12.0	3.9	2.2	10.8	9.0	11.4	7.9	11.1	11.0
Max Capacity	mw	8.1	2.7	8.1	8.1	8.1	8.1	8.1	8.1	5.0	8.1	5.2	7.6
Duration	hr/d	21.8	7.8	16.9	12.0	19.1	20.8	12.2	14.0	11.6	15.1	11.9	12.0
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	12.2	16.2	12.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Max Capacity	mw	39.3	7.0	29.8	45.0	33.1	36.0	21.0	24.0	13.5	26.7	14.2	19.4
Duration	hr/d	11.8	7.8	12.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Pole Hill													
Min Capacity	mw	0.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0
Duration	hr/d	1.9	15.8	6.7	12.0	4.5	2.9	10.6	3.6	12.0	2.3	12.0	12.0
Max Capacity	mw	34.0	11.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	26.4	33.0
Duration	hr/d	22.2	8.2	17.3	12.0	19.5	21.1	13.4	20.4	12.0	21.9	12.0	12.0
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	16.1	12.0	8.7	12.0	12.0	11.9	12.0	9.5	11.7	12.0	12.0
Max Capacity	mw	78.4	13.0	57.2	86.0	65.5	72.8	44.2	69.1	85.2	76.8	31.0	40.2
Duration	hr/d	11.6	7.9	12.0	10.0	12.0	12.0	12.1	12.0	10.0	11.8	12.0	12.0
Total Load Follo	wing												
Min Capacity	mw	0.8	0.0	0.0	42.1	0.0	0.0	0.0	0.0	34.0	0.0	0.0	0.0
Max Capacity	mw	159.8	33.7	129.1	173.1	140.7	150.9	107.3	135.2	137.7	145.6	76.8	100.2
Total Project Ca	pacity												
Min Capacity	mw	15.2	3.6	2.6	44.4	2.3	2.5	3.0	6.3	50.7	16.6	13.8	13.7
		· <b>-</b>					•				•		

CBTAOP V1.10 Run: 19-Nov-2008 12:32 Minimum Reasonable Plan (Oct=80% Quota; Nov-Sep=80% Quota)

#### COLORADO-BIG THOMPSON MONTHLY OPERATIONS

### HYDROLOGY OPERATIONS

Green Mtn Reservoir		Ir	nitial Con	t 10	9.5 kaf	Ma	aximum Cor	nt 15	3.6 kaf	Mi	nimum Co	ont	6.0 kaf	
			Ele		5.79 ft		Ele		.91 ft				.72 ft	
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Dillon Inflow	kaf	8.2	6.1	4.4	4.0	3.6	4.3	6.8	24.6	33.5	18.2	10.0	5.7	129.4
Dillon-Grn Mtn Gain		8.8	6.4	4.4	3.8	3.6	4.3	7.2	18.6	24.0	14.8	9.9	5.7	110.9
DIIION GIN Men Guin	Aul	0.0	0.4		3.0	3.2	4.1	· · -	10.0	24.0	14.0	3.3	3.3	110.5
Undepleted Inflow	kaf	17.0	12.5	8.6	7.8	6.8	8.4	14.0	43.2	57.5	33.0	19.9	11.6	240.3
Depletion	kaf	2.1	0.7	0.6	0.4	-0.1	-0.8	3.8	21.5	30.5	15.1	6.9	2.7	83.4
Depleted Inflow	kaf	14.9	11.8	8.0	7.4	6.9	9.2	10.2	21.7	27.0	17.9	13.0	8.9	156.9
month in a Dollar or	16	40 5	15.5	10.0	10.0	0.0	10 5	10.0	2.0	2 7	00 5	10.7	16.0	100.0
Turbine Release Spill/Waste	kaf kaf	48.5 0.0	15.5 0.0	10.9	10.3	9.3	12.5 0.0	10.0	3.8 0.0	3.7 0.0	23.5	18.7 0.0	16.2 0.0	182.9 0.0
Total River Release	kaf	48.5	15.5	10.9	10.3	9.3	12.5	10.0	3.8	3.7	23.5	18.7	16.2	182.9
10001 111101 11010000		10.0	20.0		20.5	5.5			5.0	5.,	25.5			202.5
Min Release	cfs	789	260	177	168	167	203	168	62	62	382	304	273	
Total River Release	cfs	789	260	177	168	167	203	168	62	62	382	304	272	
Evaporation	kaf kaf	0.3	0.1	0.0	0.0	0.0	0.2	0.3 75.0	0.4 90.0	0.6 145.0	0.6 152.0	0.5	0.4	3.4
End-Month Targets End-Month Content	kaf	75.6	71.8	68.9	66.0	63.6	60.1	60.0	77.5	100.2	94.0	87.8	80.1	
End-Month Elevation			7900.71 78											
Willow Crk Reservoi	r	Ir	nitial Con	t	6.2 kaf	Ma	ximum Cor	nt 1	0.2 kaf	Mi	nimum Co		5.0 kaf	
			Ele		L.82 ft		El€		.83 ft				.78 ft	_
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Native Inflow	kaf	1.2	1.2	0.8	0.8	0.7	1.0	3.8	12.7	6.3	2.1	1.1	0.7	32.4
Min Release	kaf	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	11.5
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	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	11.5
Pumped to Granby	kaf	0.0	0.0	0.0	0.0	0.0	2.1	2.1	9.3	2.6	0.8	0.4	0.3	17.6
Evaporation	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1 9.0	0.1	0.1 9.0	0.1	0.1 9.0	0.5
End-Month Targets End-Month Content	kaf kaf	5.9 5.9	7.2 6.3	6.7	7.1	7.4	5.9	7.2 7.2	9.0	10.0 10.0	9.0	9.1	9.0	
End-Month Elevation			8112.35 8											
		0110.10	0111.00 0.		0110.11	0117700	0110110		0121.00	0120111	0121100	0111100	0121.00	
Tales Country		-	itial Car	- 40	)0 2 haf	<b>1</b> 4-			16 1 has	14:	C-		6 E 1-4	
Lake Granby		Ir	nitial Con		08.3 kaf	Ma	aximum Cor		6.1 kaf	Mi	nimum Co		6.5 kaf	
Lake Granby	2008	Ir Oct	nitial Con Ele Nov		08.3 kaf 0.73 ft Jan	Ma Feb	aximum Cor Ele Mar	ev 8279	66.1 kaf 0.50 ft May	Mi Jun		lev 8186	.91 ft	Total
Lake Granby	2008		Ele	v 8260	).73 ft		Ele		.50 ft		E]			Total
Native inflow	kaf	Oct 2.3	Nov	7 8260 Dec  1.4	0.73 ft Jan  1.4	Feb 1.2	Ele Mar 	Apr 4.9	0.50 ft May  17.3	Jun  21.8	El Jul  7.0	Lev 8186 Aug  2.5	5.91 ft Sep 	64.3
Native inflow Rels frm Shadow Mtn	kaf kaf	Oct 2.3 2.2	Nov 	Dec 1.4 2.8	0.73 ft Jan  1.4 1.2	Feb 1.2 1.1	Ele Mar 	Apr  4.9 1.2	0.50 ft May  17.3 3.1	Jun  21.8 15.5	EJ Jul 7.0 3.1	Aug  2.5 2.5	5.91 ft Sep  1.6 2.1	64.3 38.7
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap	kaf kaf kaf kaf	Oct  2.3 2.2 0.0	Nov 	Pec Dec 1.4 2.8 0.0	0.73 ft Jan 1.4 1.2 0.0	Feb  1.2 1.1 0.0	Ele Mar 	Apr 4.9 1.2 0.0	0.50 ft May  17.3 3.1 5.0	Jun  21.8 15.5 5.0	Jul  7.0 3.1 0.0	Aug  2.5 2.5 0.0	5.91 ft Sep  1.6 2.1 0.0	64.3 38.7 10.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk	kaf kaf kaf kaf kaf	Oct  2.3 2.2 0.0 0.0	Nov 	Pec Dec 1.4 2.8 0.0 0.0	0.73 ft Jan 1.4 1.2 0.0 0.0	Feb  1.2 1.1 0.0 0.0	Ele Mar 	Apr 4.9 1.2 0.0 2.1	0.50 ft May  17.3 3.1 5.0 9.3	Jun  21.8 15.5 5.0 2.6	Jul 7.0 3.1 0.0 0.8	Aug  2.5 2.5 0.0	S.91 ft Sep  1.6 2.1 0.0 0.3	64.3 38.7 10.0 17.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap	kaf kaf kaf kaf	Oct  2.3 2.2 0.0	Nov 	Pec Dec 1.4 2.8 0.0	0.73 ft Jan 1.4 1.2 0.0	Feb  1.2 1.1 0.0	Ele Mar 	Apr 4.9 1.2 0.0	0.50 ft May  17.3 3.1 5.0	Jun  21.8 15.5 5.0	Jul  7.0 3.1 0.0	Aug  2.5 2.5 0.0	5.91 ft Sep  1.6 2.1 0.0	64.3 38.7 10.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk	kaf kaf kaf kaf kaf	Oct  2.3 2.2 0.0 0.0	Nov 	Pec Dec 1.4 2.8 0.0 0.0	0.73 ft Jan 1.4 1.2 0.0 0.0	Feb  1.2 1.1 0.0 0.0	Ele Mar 	Apr 4.9 1.2 0.0 2.1	0.50 ft May  17.3 3.1 5.0 9.3	Jun  21.8 15.5 5.0 2.6	Jul 7.0 3.1 0.0 0.8	Aug  2.5 2.5 0.0	S.91 ft Sep  1.6 2.1 0.0 0.3	64.3 38.7 10.0 17.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow	kaf kaf kaf kaf kaf	Oct  2.3 2.2 0.0 0.0 4.5	Nov	Dec 1.4 2.8 0.0 0.0 4.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3	Ele Mar 	Apr 4.9 1.2 0.0 2.1 8.2	.50 ft May  17.3 3.1 5.0 9.3 34.7	Jun 21.8 15.5 5.0 2.6 44.9	Tul  7.0 3.1 0.0 0.8 10.9	Aug 2.5 2.5 0.0 0.4 5.4	1.91 ft Sep  1.6 2.1 0.0 0.3 4.0	64.3 38.7 10.0 17.6 130.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release	kaf kaf kaf kaf kaf kaf	Oct  2.3 2.2 0.0 0.0 4.5	Elev Nov 	7 8260 Dec  1.4 2.8 0.0 0.0 4.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3	Ele Mar 	Apr 4.9 1.2 0.0 2.1 8.2	.50 ft May  17.3 3.1 5.0 9.3 34.7	Jun 21.8 15.5 5.0 2.6 44.9	Tul 7.0 3.1 0.0 0.8 10.9	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4	1.91 ft Sep  1.6 2.1 0.0 0.3 4.0	64.3 38.7 10.0 17.6 130.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release	kaf kaf kaf kaf kaf kaf	Oct 	Nov	v 8260 Dec 1.4 2.8 0.0 0.0 4.2 1.2 0.0	73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0	Apr 4.9 1.2 0.0 2.1 8.2 1.2 0.0	17.3 3.1 5.0 9.3 34.7 4.6 0.0	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7	7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3	2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5	S.91 ft Sep 	64.3 38.7 10.0 17.6 130.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt	kaf kaf kaf kaf kaf kaf	Oct 	Element	v 8260 Dec  1.4 2.8 0.0 0.0 4.2 1.2 0.0 1.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1	Ele Mar 	Apr 4.9 1.2 0.0 2.1 8.2 1.2 0.0 1.2	.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7	Tul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3	Eev 8186 Aug	3.91 ft Sep 	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation	kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4	Element	v 8260 Dec 1.4 2.8 0.0 0.0 4.2 1.2 0.0 1.2 24.4 0.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.0	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7	*** 8279 ****Apr 4.9 1.2 0.0 2.1 8.2 1.2 0.0 1.2 11.6 1.2	.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6	Jun	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3	Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7	3.91 ft Sep 	38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt	kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3	Nov	7 8260 Dec 1.4 2.8 0.0 4.2 1.2 0.0 1.2 24.4 0.2 0.3	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3	8279 Apr 4.99 1.2 0.0 2.1 8.2 1.2 0.0 1.2	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3	Tul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3	2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 2.5 0.0 3.4 2.5 0.0 2.5 2.5 0.0	3.91 ft Sep 	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss	kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Element	v 8260 Dec 	0.73 ft Jan	Feb	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8	8279 Apr 4.99 1.2 0.0 2.1 8.2 0.0 1.2 0.0 1.2 0.3 2.66.7	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0	Tul T100 T100 T100 T100 T100 T100 T100 T10	2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 0.0 2.5	3.91 ft Sep 	38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content	kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Nov	v 8260 Dec  1.4 2.8 0.0 0.0 4.2 1.2 0.0 1.2 24.4 0.2 0.3 355.7 252.14	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 32.9 0.0 0.3 323.9 8246.66	Feb	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8	279 Apr 4.9 1.2 0.0 2.1 1.8 2.2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0	Tul T100 T100 T100 T100 T100 T100 T100 T10	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20	3.91 ft Sep 	38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content	kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	Nov	v 8260 Dec 	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.3 298.8 8242.14	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8	279 Apr 4.9 1.2 0.0 2.1 8.2 0.0 1.2 1.2 0.3 266.7 3236.08 at 1	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 23.2 1.5 0.3 271.7 8237.05	38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation	kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	Element	v 8260 Dec 	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.0 0.3 298.8 8242.14 Ma	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8	8279 Apr 4.9 1.2 0.0 2.1 8.2 1.2 0.0 1.2 11.6 1.2 0.3 266.7 8236.08	0.50 ft  May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation	kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	Nov	v 8260 Dec 	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.3 298.8 8242.14	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8	279 Apr 4.9 1.2 0.0 2.1 8.2 0.0 1.2 1.2 0.3 266.7 3236.08 at 1	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 23.2 1.5 0.3 271.7 8237.05	38.7 10.0 17.6 130.6 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn	kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	Element	v 8260 Dec 	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.0 0.3 298.8 8242.14 Ma	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8	8279 Apr 4.9 1.2 0.0 2.1 8.2 1.2 0.0 1.2 11.6 1.2 0.3 266.7 8236.08	0.50 ft  May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaff i.02 ft Sep	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn	kaf kaf kaf kaf kaf kaf kaf ft	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.55 29.4	1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 83	v 8260 Dec	0.73 ft     Jan  1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaff 5.68 ft     Jan  2.1 32.9	Feb 1.2 1.1 0.0 0.0 0.0 2.3 1.1 0.0 0.1 1.1 26.0 0.3 298.8 8242.14 Ma	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8 eximum Cor Ele Mar	279 Apr 4.9 1.2 0.0 2.1 1 8.2 1.2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08 at 1 1 av 8367 Apr 7.4 4 11.6	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf .00 ft May	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97 nimum CC EJ Jul	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf i.02 ft Sep	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow	kaf kaf kaf kaf kaf kaf kaf faf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir	Elem Nov 	v 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1	Feb	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8 aximum Cor Ele Mar 	279 Apr 4.9 1.2 0.0 2.1 8.2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08 at 1 1 av 8367 Apr 7.4	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf 0.00 ft May	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 314.4 8244.97 nimum Cc EJ Jul 10.6	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6.6 kaf i.02 ft Sep 2.5	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Elem Nov 	### 8260   Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9 35.0	Feb	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8 eximum Cor Ele Mar 	279 Apr 4.9 1.2 0.0 2.1 8.2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08 at 1 1 av 8367 Apr 7.4 11.6 19.0	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf .00 ft May 26.0 0.0 26.0	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97 nimum Cc EJ Jul 10.6 22.6 33.2	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3	3.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf 6.02 ft Sep 2.5 23.2 25.7	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release	kaff kaff kaff kaff kaff kaff kaff kaff	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9	Elemon Nov	v 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9 35.0	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.3 298.8 8242.14 Ma Feb 1.9 26.0 27.9 1.1	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8237.26 Mar 	279 Apr 4.9 1.2 0.0 2.1 1 8.2 1.2 0.0 1.2 11.6 1.2 0.3 266.7 Apr 7.4 11.6 19.0 1.2 1.2 11.6 19.0 1.2 1.2 1.6 19.0 1.2	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf .00 ft May 26.0 0.0 0.0 1.2	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97 nimum CC EJ Jul 10.6 22.6 33.2 3.1	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf 5.02 ft Sep 2.5 23.2 25.7	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass	kaff kaff kaff kaff kaff kaff kaff kaff	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.55 29.4 32.9 2.2 0.0	Elem-Nov	v 8260 Dec	0.73 ft     Jan  1.4 1.2 0.0 0.0 2.6 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.99 35.0 1.2	Feb	Ele Mar  1.5 1.2 0.0 2.1 4.8  1.2 0.0 1.2  28.6 0.7 0.3 272.8 8237.26  Mar  2.2 28.6 30.8  1.2	279 Apr 4.9 1.2 0.0 2.1 1.8 .2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08 at 1 1 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf 0.00 ft May 26.0 0.0 26.0	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6	EJ Jul 7.0 3.1 0.0 0.8 8 10.9 3.3 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3 2.5 0.0	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf i.02 ft Sep 2.5 23.2 25.7 2.1 0.0	700 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6 Total 96.6 225.0 321.6 24.3 14.4
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release	kaff kaff kaff kaff kaff kaff kaff kaff	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9	Elemon Nov	v 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9 35.0	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 26.0 0.3 298.8 8242.14 Ma Feb 1.9 26.0 27.9 1.1	Ele Mar 1.5 1.2 0.0 2.1 4.8 1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8237.26 Mar 	279 Apr 4.9 1.2 0.0 2.1 1 8.2 1.2 0.0 1.2 11.6 1.2 0.3 266.7 Apr 7.4 11.6 19.0 1.2 1.2 11.6 19.0 1.2 1.2 1.6 19.0 1.2	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf .00 ft May 26.0 0.0 0.0 1.2	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 0.3 314.4 8244.97 nimum CC EJ Jul 10.6 22.6 33.2 3.1	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf 5.02 ft Sep 2.5 23.2 25.7	64.3 38.7 10.0 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass	kaff kaff kaff kaff kaff kaff kaff kaff	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.55 29.4 32.9 2.2 0.0	Elem-Nov	v 8260 Dec	0.73 ft     Jan  1.4 1.2 0.0 0.0 2.6 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.99 35.0 1.2	Feb	Ele Mar  1.5 1.2 0.0 2.1 4.8  1.2 0.0 1.2  28.6 0.7 0.3 272.8 8237.26  Mar  2.2 28.6 30.8  1.2	279 Apr 4.9 1.2 0.0 2.1 1.8 .2 0.0 1.2 11.6 1.2 0.3 266.7 3236.08 at 1 1 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.4 kaf 0.00 ft May 26.0 0.0 26.0	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6	EJ Jul 7.0 3.1 0.0 0.8 8 10.9 3.3 3.3 22.6 2.3 0.3 314.4 8244.97	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3 2.5 0.0	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf i.02 ft Sep 2.5 23.2 25.7 2.1 0.0	700 17.6 130.6 24.6 0.0 24.6 225.0 14.0 3.6 Total 96.6 225.0 321.6 24.3 14.4
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release Adams Tunnel Flow Evaporation	kaff kaff kaff kaff kaff kaff kaff kaff	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.233 In Oct 3.5 29.4 32.9 2.2 0.0 2.2	Elem Nov 	v 8260   Dec   Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9 35.0 1.2 33.8 0.0	Feb	Ele Mar  1.5 1.2 0.0 2.1 4.8  1.2 0.0 1.2  28.6 0.7 0.3 272.8 8237.26 8 8237.26 Mar 2.2 28.6 30.8  1.2 0.0 1.2	279 Apr 4.9 1.2 0.0 2.1 1.6 1.2 0.3 266.7 3236.08 11 1.6 4 11.6 19.0 1.2 11.6 19.0 1.2 11.6 19.0 1.2 11.6 19.0 1.2 17.4 10.4 0.4	0.50 ft May 17.3 3.1 5.0 9.3 34.7 4.6 0.0 4.6 0.0 1.9 0.3 294.6 8241.37 8.8.4 kaf 0.00 ft May 26.0 0.0 26.0 1.2 1.9 3.1	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6 3.0 12.5 15.5	EJ Jul 7.0 3.1 0.0 0.8 8 10.9 3.3 3.3 22.6 2.3 0.3 314.4 8244.97 Jul 10.6 22.6 33.2 3.1 0.0 3.1 29.4 0.7	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20  Ont 1 Lev 8366 Aug 3.7 21.6 25.3 2.5 0.0 2.5	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6 kaf i.02 ft Sep 2.5 23.2 25.7 2.1 0.0 2.1 23.1 0.5	Total 96.6 225.0 321.6 24.3 38.7
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mt Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release Adams Tunnel Flow	kafi kafi kafi kafi kafi kafi kafi kafi	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 38256.23 IT Oct 3.5 29.4 32.9 2.2 0.0 2.2 30.3 0.4 17.8	Elem Nov 	v 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9 35.0 1.2 0.0 1.2 33.8 0.0 17.8	Feb	Ele Mar  1.5 1.2 0.0 2.1 4.8  1.2 0.0 1.2 28.6 0.7 0.3 272.8 8237.26 8 8237.26 8  Mar  2.2 28.6 30.8  1.2 0.0 1.2	279 Apr 4.9 1.2 0.0 1.2 11.6 1.2 0.3 266.7 Apr 7.4 11.6 19.0 1.2 0.0 1.2 11.6 19.0 1.2 0.3 1.4 11.6 19.0 1.2 0.4 17.8	0.50 ft May	Jun 21.8 15.5 5.0 2.6 44.9 4.7 0.0 4.7 0.0 2.5 0.3 332.0 8248.08 Mi Jun 32.6 0.0 32.6 3.0 12.5 15.5 16.3 0.8 0.0 80.0	EJ Jul 7.0 3.1 0.0 0.8 10.9 3.3 0.0 3.3 22.6 2.3 3.14.4 8244.97imum CC EJ Jul 10.6 22.6 33.2 3.1 0.0 3.1 29.4 0.7 17.8	Lev 8186 Aug 2.5 2.5 0.0 0.4 5.4 2.5 0.0 2.5 21.6 1.7 0.3 293.7 8241.20 ont 1 Lev 8366 Aug 3.7 21.6 25.3 2.5 0.0 2.5	i.91 ft Sep 1.6 2.1 0.0 0.3 4.0 1.0 0.0 1.0 23.2 1.5 0.3 271.7 8237.05 6.6.6 kaf i.02 ft Sep 2.5 23.2 25.7 2.1 0.0 2.1 23.1 0.5 17.8	General Services

Adams Tunnel	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Max Tunnel Capacity	kaf	33.8	16.4	33.8	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	381.6
Actual delivery	kaf	30.3	3.8	23.6	33.8	26.8	29.3	17.4	22.2	16.3	29.4	22.2	23.1	278.2
% max delivery	용	90	23	70	100	88	87	53	66	50	87	66	71	
Big T @ Lake Estes	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Big Thompson inflow	kaf	2.6	1.8	1.2	1.0	0.7	1.0	1.9	10.9	19.6	12.5	5.8	2.8	61.8
Min river release	kaf	3.1	1.5	1.5	1.5	1.4	1.5	2.2	6.9	7.4	7.7	6.9	3.7	45.3
Act river release	kaf	2.6	1.5	1.2	1.0	0.7	1.0	1.9	6.9	7.4	8.1	5.8	2.8	40.9
Skim water available		0.0	0.3	0.0	0.0	0.0	0.0	0.0	4.0	12.2	4.8	0.0	0.0	21.3
Skim water diverted	kaf	0.0	0.3	0.0	0.0	0.0	0.0	0.0	4.0	12.2	4.4	0.0	0.0	20.9
% skim diverted	8		100						100	100	92			
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	2.6	1.5	1.2	1.0	0.7	1.0	1.9	6.9	7.4	8.1	5.8	2.8	40.9
Olympus Tunnel	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Max Tunnel Capacity	kaf	30.4	16.4	25.4	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	369.8
Actual delivery	kaf	30.3	4.1	23.6	33.8	26.8	29.3	17.4	26.2	28.5	33.8	22.2	23.1	299.1
% max delivery	용	100	25	93	100	88	87	53	78	87	100	66	71	
Seenage and Even	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
Seepage and Evap Inflow to Flatiron	kaf kaf	30.1	3.9	23.4	33.7	26.7	29.2	17.3	26.1	28.4	33.7	22.0	22.9	297.4
Carter Lake		Ir	nitial Co		3.4 kaf	Ma	aximum Co		.2.2 kaf	Mi	nimum Co		1.2 kaf	
		0-4			.36 ft	n.1			3.98 ft	<b>T</b>			9.99 ft	m 1
	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Pump from Flatiron	kaf	8.4	0.0	18.6	19.7	16.2	8.6	0.0	8.3	7.1	7.1	3.6	2.5	100.1
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
														۰.
Evaporation loss Seepage loss	kaf kaf	0.2 0.1	0.1 0.1	0.0 0.1	0.0 0.1	0.0	0.2	0.3	0.4	0.5 0.2	0.4	0.3 0.1	0.3 0.1	2.7 1.7
End-Month Targets	kaf	50.8	49.0	66.2	84.7	99.4	105.0	102.0	107.0	93.0	80.6	61.0	49.0	1.,
End-Month Content	kaf	50.8	49.1	66.2	84.1	98.6	105.0	98.7	97.9	93.0	80.6	61.0	49.0	
End-Month Elevation	ft	5698.39	5696.42	5715.28	5733.21	5746.82	5752.61	5746.91	5746.18	5741.65	5729.82	5709.76	5696.30	
T	1 6	7 -						2.4	2.0		10.4	16.0	0.1	F0 C
Irrigation demand	kaf kaf	7.5	0.0	0.0	0.0	0.0	0.0	3.4	3.8	5.6 3.3	12.4	16.8	9.1	58.6 28.0
Metered delivery	kaf	2.6	1.1	1.0	1.3	1.2	1.4	1.9	2.7	3.3	4.2	4.0	3.3	28.0
_														
Metered delivery Windy Gap demand	kaf kaf	2.6 0.6	1.1 0.4	1.0 0.4 1.4 1.4	1.3 0.4	1.2 0.4	1.4 0.4	1.9 0.5	2.7 2.0 8.5 8.5	3.3 2.4 11.3 11.3	4.2 2.3	4.0 2.0	3.3 1.7 14.1 14.1	28.0 13.5
Metered delivery Windy Gap demand Total demand Total delivery % required delivery	kaf kaf kaf kaf	2.6 0.6 10.7 10.7	1.1 0.4 1.5 1.5	1.0 0.4 1.4 1.4	1.3 0.4 1.7 1.7	1.2 0.4 1.6 1.6	1.4 0.4 1.8 1.8	1.9 0.5 5.8 5.8	2.7 2.0 8.5 8.5	3.3 2.4 11.3 11.3	4.2 2.3 18.9 18.9	4.0 2.0 22.8 22.8 100	3.3 1.7 14.1 14.1 100	28.0 13.5 100.1 100.1
Metered delivery Windy Gap demand Total demand Total delivery	kaf kaf kaf kaf	2.6 0.6 10.7 10.7	1.1 0.4 1.5 1.5	1.0 0.4 1.4 1.4	1.3 0.4 1.7 1.7	1.2 0.4 1.6 1.6	1.4 0.4 1.8 1.8	1.9 0.5 5.8 5.8	2.7 2.0 8.5 8.5	3.3 2.4 11.3 11.3	4.2 2.3 18.9 18.9	4.0 2.0 22.8 22.8	3.3 1.7 14.1 14.1	28.0 13.5 100.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage	kaf kaf kaf kaf	2.6 0.6 10.7 10.7	1.1 0.4 1.5 1.5	1.0 0.4 1.4 1.4	1.3 0.4 1.7 1.7	1.2 0.4 1.6 1.6	1.4 0.4 1.8 1.8	1.9 0.5 5.8 5.8	2.7 2.0 8.5 8.5	3.3 2.4 11.3 11.3	4.2 2.3 18.9 18.9	4.0 2.0 22.8 22.8 100	3.3 1.7 14.1 14.1 100	28.0 13.5 100.1 100.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage	kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100	1.0 0.4 1.4 1.4 100	1.3 0.4 1.7 1.7 100 0.0	1.2 0.4 1.6 1.6 100	1.4 0.4 1.8 1.8 100	1.9 0.5 5.8 5.8 100 0.0	2.7 2.0 8.5 8.5 100 0.0	3.3 2.4 11.3 11.3 100 0.0	4.2 2.3 18.9 18.9 100 0.0	4.0 2.0 22.8 22.8 100 0.0	3.3 1.7 14.1 14.1 100 0.0	28.0 13.5 100.1 100.1 0.0
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930	kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100 0.0 Nov	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.7 100 0.0 Jan  6.1 57.2	1.2 0.4 1.6 1.0 0.0 Feb	1.4 0.4 1.8 1.0 0.0 Mar 	1.9 0.5 5.8 5.8 100 0.0 Apr  1.5 27.7	2.7 2.0 8.5 8.5 100 0.0 <b>May</b> 	3.3 2.4 11.3 11.3 100 0.0 Jun  1.5 55.3	4.2 2.3 18.9 18.9 100 0.0 Jul  1.5 57.2	4.0 2.0 22.8 22.8 100 0.0 Aug  1.5 57.2	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3	28.0 13.5 100.1 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow	kaf kaf kaf kaf 2008	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100 0.0 Nov	1.0 0.4 1.4 1.0 0.0 Dec	1.3 0.4 1.7 1.7 100 0.0 Jan 	1.2 0.4 1.6 1.6 100 0.0 Feb	1.4 0.4 1.8 1.8 100 0.0	1.9 0.5 5.8 5.8 100 0.0 Apr	2.7 2.0 8.5 8.5 100 0.0 May	3.3 2.4 11.3 11.3 100 0.0 Jun 	4.2 2.3 18.9 18.9 100 0.0	4.0 2.0 22.8 22.8 100 0.0	3.3 1.7 14.1 14.1 100 0.0 Sep	28.0 13.5 100.1 100.1 0.0 Total
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow	kaf kaf kaf kaf 2008  kaf	2.6 0.6 10.7 10.7 100 0.0 Oct	1.1 0.4 1.5 1.5 100 0.0 Nov	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.7 100 0.0 Jan  6.1 57.2	1.2 0.4 1.6 1.0 0.0 Feb	1.4 0.4 1.8 1.0 0.0 Mar 	1.9 0.5 5.8 5.8 100 0.0 Apr  1.5 27.7	2.7 2.0 8.5 8.5 100 0.0 <b>May</b> 	3.3 2.4 11.3 11.3 100 0.0 Jun  1.5 55.3	4.2 2.3 18.9 18.9 100 0.0 Jul  1.5 57.2	4.0 2.0 22.8 22.8 100 0.0 Aug  1.5 57.2	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3	28.0 13.5 100.1 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow	kaf kaf kaf % kaf 2008  kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov 	1.0 0.4 1.4 1.0 0.0 Dec 	1.3 0.4 1.7 1.7 100 0.0 Jan 	1.2 0.4 1.6 1.6 100 0.0 Feb  5.6 51.6	1.4 0.4 1.8 1.0 0.0 Mar 	1.9 0.5 5.8 5.8 100 0.0 Apr  1.5 27.7 17.3	2.7 2.0 8.5 8.5 100 0.0 May 	3.3 2.4 11.3 11.3 100 0.0 Jun  1.5 55.3 21.3	4.2 2.3 18.9 18.9 100 0.0 Jul  1.5 57.2 26.6	4.0 2.0 22.8 22.8 100 0.0 Aug  1.5 57.2 18.4	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3 20.4	28.0 13.5 100.1 100.1 0.0 Total  31.3 645.6 197.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow Dille Tunnel	kaf kaf kaf % kaf 2008  kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.7 100 0.0 Jan 	1.2 0.4 1.6 1.0 0.0 Feb 5.6 51.6 10.5	1.4 0.4 1.8 1.8 100 0.0 Mar 	1.9 0.5 5.8 5.8 100 0.0 Apr  1.5 27.7 17.3 Apr	2.7 2.0 8.5 8.5 100 0.0 May 	3.3 2.4 11.3 11.3 100 0.0 Jun  1.5 55.3 21.3	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6	4.0 2.0 22.8 100 0.0 Aug  1.5 57.2 18.4	3.3 1.7 14.1 100 0.0 Sep  1.5 55.3 20.4	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes)	kaf kaf kaf kaf 2008  kaf kaf 2008	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.7 100 0.0 Jan 57.2 14.0 Jan 	1.2 0.4 1.6 1.0 0.0 Feb 55.6 51.6 10.5 Feb 	1.4 0.4 1.8 1.00 0.0 Mar 	1.9 0.5 5.8 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr  2.9 0.0	2.7 2.0 8.5 8.5 100 0.0 May  1.5 57.2 17.8 May  14.0 4.0 0.0	3.3 2.4 11.3 100 0.0 Jun 	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4	4.0 2.0 22.8 22.8 100 0.0 Aug  1.5 57.2 18.4 Aug  7.2 0.0	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep  3.9 0.0 0.0	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow  Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release	kaf kaf kaf kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.0 0.0 Jan 	1.2 0.4 1.6 1.00 0.0 Feb 	1.4 0.4 1.8 1.00 0.0 Mar 	1.9 0.5 5.8 100 0.0 Apr  1.5 27.7 17.3 Apr  2.9 0.0 0.0	2.7 2.0 8.5 8.5 100 0.0 May  1.5 57.2 17.8 May  14.0 4.0 0.0 0.0	3.3 2.4 11.3 100 0.0 Jun 	4.2 2.3 18.9 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 0.1.8	4.0 2.0 22.8 22.8 100 0.0 Aug 	3.3 1.7 14.1 14.1 100 0.0 Sep 	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaf kaf kaf % kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec  1.5 57.2 4.8 Dec  1.5 0.0 0.0	1.3 0.4 1.7 1.7 100 0.0 Jan 57.2 14.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 51.6 51.65 Feb 	1.4 0.4 1.8 1.00 0.0 Mar 	1.9 0.5 5.8 100 0.0 Apr  1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7	2.7 2.0 8.5 8.5 100 0.0 May  1.5 57.2 17.8 May  14.0 0.0 0.0	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 0.0 1.2 9.6	4.2 2.3 18.9 100 0.0 Jul 	4.0 2.0 22.8 100 0.0  Aug 1.5 57.2 18.4  Aug 7.2 0.0 0.0 2.9 4.3	3.3 1.7 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep 0.0 0.0	28.0 13.5 100.1 0.0 Total  31.3 645.6 197.3 Total  78.4 20.9 0.0 11.2 46.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaf kafkaf kaf % kaf 2008 kaf kaf kafkaf kafkafkaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.0 0.0 Jan 	1.2 0.4 1.6 1.00 0.0 Feb 	1.4 0.4 1.8 1.00 0.0 Mar 	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7	2.7 2.0 8.5 8.5 100 0.0 May  1.5 57.2 17.8 May  14.0 0.0 0.0 1.2 8.8 8.8	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 0.0 1.2 9.6 9.2	4.2 2.3 18.9 100 0.0 Jul 1.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 8.9	4.0 2.0 22.8 100 0.0 Aug  1.5 57.2 18.4 Aug  7.2 0.0 0.0 2.9 4.3 4.3	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep  3.9 0.0 0.0 1.7 2.2 2.2	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaf kaf kaf % kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec  1.5 57.2 4.8 Dec  1.5 0.0 0.0	1.3 0.4 1.7 1.7 100 0.0 Jan 57.2 14.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 51.6 51.65 Feb 	1.4 0.4 1.8 1.00 0.0 Mar 	1.9 0.5 5.8 100 0.0 Apr  1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7	2.7 2.0 8.5 8.5 100 0.0 May  1.5 57.2 17.8 May  14.0 0.0 0.0	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 0.0 1.2 9.6	4.2 2.3 18.9 100 0.0 Jul 	4.0 2.0 22.8 100 0.0  Aug 1.5 57.2 18.4  Aug 7.2 0.0 0.0 2.9 4.3	3.3 1.7 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep 0.0 0.0	28.0 13.5 100.1 0.0 Total  31.3 645.6 197.3 Total  78.4 20.9 0.0 11.2 46.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0 0.0	1.0 0.4 1.4 100 0.0 Dec 	1.3 0.4 1.7 1.0 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan	1.2 0.4 1.6 1.00 0.0 Feb  5.6 51.6 10.5 Feb  1.3 0.0 0.0 0.0 0.0 1.3 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7 1.7	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2.2 0.0 1.2.2 9.6 9.2 96 Jun	4.2 2.3 18.9 100 0.0 Jul  15.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug	3.3 1.7 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep  3.9 0.0 0.0 0.0 1.7 2.2 2.2 100	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total  78.4 20.9 0.0 11.2 46.3 37.9
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0 2.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.0 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0	1.2 0.4 1.66 1.00 0.0 Feb  1.3 0.0 0.0 0.0 1.3 0.0	1.4 0.4 1.8 1.00 0.0 Mar 6.1 57.2 20.6 Mar 1.8 0.0 0.0 0.0 1.8 0.0	1.9 0.5 5.8 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 2.9 0.0 0.0 0.1 1.2 1.7 1.7 1.0 Apr 17.3	2.7 2.0 8.5 8.5 100 0.0  May 15.5 57.2 17.8  May 14.0 0.0 0.0 1.2 8.8 8.8 100  May 17.8	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 0.0 1.2 9.6 9.2 96 Jun Jun 21.3	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 0.1.8 8.9 100 Jul 1.8	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 0.9 4.3 4.3 100 Aug 18.4	3.3 1.7 14.1 14.1 100 0.0 Sep 	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0 0.0	1.0 0.4 1.4 100 0.0 Dec 	1.3 0.4 1.7 1.0 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan	1.2 0.4 1.6 1.00 0.0 Feb  5.6 51.6 10.5 Feb  1.3 0.0 0.0 0.0 0.0 1.3 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7 1.7	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2.2 0.0 1.2.2 9.6 9.2 96 Jun	4.2 2.3 18.9 100 0.0 Jul  15.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug	3.3 1.7 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep  3.9 0.0 0.0 0.0 1.7 2.2 2.2 100	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total  78.4 20.9 0.0 11.2 46.3 37.9
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0 2.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.0 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0	1.2 0.4 1.66 1.00 0.0 Feb  1.3 0.0 0.0 0.0 1.3 0.0	1.4 0.4 1.8 1.00 0.0 Mar 6.1 57.2 20.6 Mar 1.8 0.0 0.0 0.0 1.8 0.0	1.9 0.5 5.8 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 2.9 0.0 0.0 0.1 1.2 1.7 1.7 1.0 Apr 17.3	2.7 2.0 8.5 8.5 100 0.0  May 15.5 57.2 17.8  May 14.0 0.0 0.0 1.2 8.8 8.8 100  May 17.8	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 0.0 1.2 9.6 9.2 96 Jun Jun 21.3	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 0.1.8 8.9 100 Jul 1.8	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 0.9 4.3 4.3 100 Aug 18.4	3.3 1.7 14.1 14.1 100 0.0 Sep 	28.0 13.5 100.1 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff % kaff kaff kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.0 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 14.0	1.2 0.4 1.66 1.00 0.0 Feb 51.6 51.6 10.5 Feb  1.3 0.0 0.0 0.0 0.0 1.3 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr  2.9 0.0 0.0 1.2 1.7 100 Apr	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May 17.8	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 9.6 9.2 96 Jun 21.3 6.6	4.2 2.3 18.9 100 0.0 Jul  15.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul 	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug 18.4 11.0	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 0.0 0.0 1.7 2.2 100  Sep 20.4 12.6	28.0 13.5 100.1 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9  Total 197.3 140.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery % required felivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.2 0.4 1.66 1.00 0.0 Feb 	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 2.7.7 17.3 Apr 2.9 0.0 0.0 0.0 1.2 1.7 1.7 100 Apr 17.3 16.4	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 0.0 0.0 1.2 8.8 8.8 8.0 100  May 17.8 2.9	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 12.2 9.6 9.2 9.6 Jun 21.3 6.6	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 0.1.8 8.9 9.0 100 Jul  10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug 18.4 11.0	3.3 1.7 14.1 14.1 100 0.0 Sep  1.5 55.3 20.4 Sep  3.9 0.0 0.0 1.7 2.2 2.2 100 Sep	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9 Total 197.3 140.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.0 0.0 0.0 2.0 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 1.5 57.2 4.8 Dec  1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 5.6 51.6 10.5 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.5 10.5	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 2.9 0.0 0.0 1.2 1.7 100 Apr 17.3 6.4 0.9 1.7 2.6	2.7 2.0 8.5 8.5 100 0.0  May 1.5 5.7.2 17.8  May 14.0 0.0 1.2 8.8 8.8 100  May 17.8 2.9 8.8 15.7	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 0.0 1.2.2 9.6 9.2 9.6 Jun 21.3 6.6 2.5 9.2 23.9	4.2 2.3 18.9 100 0.0 Jul  15.5 77.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul  15.1 4.4 0.0 1.8 8.9 100 100 100 100 100 100 100 100 100 10	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug 18.4 11.0 7.4 4.3 11.7	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9 Total 197.3 140.3 36.1 37.9 94.9
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.3	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.22 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 14.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 5.6 10.5 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.5 10.5	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 2.9 0.0 0.0 1.2 1.7 1.7 100 Apr 17.3 16.4 0.9 1.7	2.7 2.0 8.5 8.5 100 0.0 May 1.5 57.22 17.8 May 14.0 0.0 0.0 1.2 8.8 8.8 100 May 17.8 10.9 2.9 8.8	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2 9.6 9.2 9.6 9.2 96 Jun 21.3 6.6 2.5 9.2 23.9 2.5	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 9.0 100 Jul  100 1.8 8.9 100 100 100 100 100 100 100 100 100 10	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 0.0 2.9 4.3 4.3 100 Aug 18.4 11.0	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0 7.5	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9  Total 197.3 140.3 36.1 37.9 94.9 35.0
Metered delivery Windy Gap demand Total demand Total delivery % required delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.0 0.0 0.0 2.0 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.22 14.0  Jan 0.0 0.0 0.0 1.4 0.0  Jan 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.2 0.4 1.6 1.00 0.0 Feb 5.6 51.6 10.5 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.5 10.5	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 2.9 0.0 0.0 1.2 1.7 1.7 100 Apr 17.3 16.4 0.9 1.7 2.6	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May 17.8 2.9 8.8 15.7	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 0.0 1.2.2 9.6 9.2 9.6 Jun 21.3 6.6 2.5 9.2 23.9	4.2 2.3 18.9 100 0.0 Jul  15.5 77.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul  15.1 4.4 0.0 1.8 8.9 100 100 100 100 100 100 100 100 100 10	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 4.3 100 Aug 18.4 11.0 7.4 4.3 11.7	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9 Total 197.3 140.3 36.1 37.9 94.9
Metered delivery Windy Gap demand Total demand Total delivery % required delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0  Nov 3.9 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 5.6 10.5 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.5 10.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 2.7.7 17.3 Apr 2.9 0.0 0.0 1.2 1.7 1.0 Apr 17.3 16.4 0.9 1.7 2.6 0.9 0.0 0.0 0.9	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May 17.8 2.9 8.8 15.7 2.9 0.0 0.0 0.0 0.0 0.0	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2.2 9.6 6 9.2 9.6  Jun 21.3 6.6 2.5 9.2 23.9 2.5 0.0 0.0 0.0 2.5	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul  26.6 6 18.0 4.2 8.9 17.5 3.8 0.0 0.4 4.2	4.0 2.0 22.8 100 0.0 Aug 1.5 5.7.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug 18.4 11.0 7.4 4.3 11.7 7.0 0.0 0.4 7.4	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0 7.5 0.0 0.3 7.8	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9  Total 197.3 140.3 36.1 37.9 94.9 35.0 0.0 1.1 36.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow  Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.4 1.4 1.00 0.0  Dec 1.5 57.2 4.8  Dec 1.5 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.22 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.6 1.00 0.0 Feb 5.6 10.5 Feb 1.3 0.0 0.0 1.3 0.0  Feb 10.5 10.5  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  20.6 20.6  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 27.7 17.3 Apr 1.7 1.7 1.7 1.7 1.7 1.7 2.9 0.0 0.0 0.0 1.2 1.7 2.6 0.9 0.0 0.0 0.9 0.9	2.7 2.0 8.5 8.5 100 0.0  May 15.5 57.22 17.8  May 14.0 0.0 0.0 1.2 8.8 8.8 100  17.8 10.9 2.9 8.8 15.7 2.9 0.0 0.0 2.9 2.9	3.3 2.4 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2 9.6 9.2 9.6 9.2 21.3 6.6 2.5 9.2 23.9 2.5 0.0 0.0 0.0 2.5 2.5	4.2 2.3 18.9 100 0.0 Jul  15.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 9 100 Jul  26.6 18.0 4.2 8.9 17.5	4.0 2.0 22.8 100 0.0 Aug 1.5 57.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 4.3 100 Aug 18.4 11.0 7.4 4.3 11.7 7.0 0.0 0.4 7.4 7.4 7.4	3.3 1.7 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0 7.5 0.0 0.3 7.8	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9  Total 197.3 140.3 36.1 37.9 94.9 35.0 0.0 1.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery % required delivery Shortage  Hansen Canal 930	kaff kaff kaff kaff kaff kaff kaff kaff	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0  Nov 3.9 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 0.4 1.4 1.00 0.0 Dec 	1.3 0.4 1.7 1.00 0.0  Jan 6.1 57.2 14.0  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 14.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Feb 5.6 10.5 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.5 10.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.4 0.4 1.8 1.00 0.0  Mar 6.1 57.2 20.6  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.6 20.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.9 0.5 5.8 100 0.0 Apr 1.5 2.7.7 17.3 Apr 2.9 0.0 0.0 1.2 1.7 1.0 Apr 17.3 16.4 0.9 1.7 2.6 0.9 0.0 0.0 0.9	2.7 2.0 8.5 8.5 100 0.0  May 1.5 57.2 17.8  May 14.0 4.0 0.0 1.2 8.8 8.8 100  May 17.8 2.9 8.8 15.7 2.9 0.0 0.0 0.0 0.0 0.0	3.3 2.4 11.3 11.3 100 0.0  Jun 1.5 55.3 21.3  Jun 23.0 1.2.2 9.6 6 9.2 9.6  Jun 21.3 6.6 2.5 9.2 23.9 2.5 0.0 0.0 0.0 2.5	4.2 2.3 18.9 100 0.0 Jul  1.5 57.2 26.6 Jul  15.1 4.4 0.0 1.8 8.9 100 Jul  26.6 6 18.0 4.2 8.9 17.5 3.8 0.0 0.4 4.2	4.0 2.0 22.8 100 0.0 Aug 1.5 5.7.2 18.4 Aug 7.2 0.0 0.0 2.9 4.3 100 Aug 18.4 11.0 7.4 4.3 11.7 7.0 0.0 0.4 7.4	3.3 1.7 14.1 14.1 100 0.0  Sep 1.5 55.3 20.4  Sep 3.9 0.0 0.0 1.7 2.2 2.2 100  Sep 20.4 12.6 7.8 2.2 10.0 7.5 0.0 0.3 7.8	28.0 13.5 100.1 0.0 Total 31.3 645.6 197.3 Total 78.4 20.9 0.0 11.2 46.3 37.9  Total 197.3 140.3 36.1 37.9 94.9 35.0 0.0 1.1 36.1

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Hansen Canal 550	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow from Flatiro		11.3	3.6	4.8	14.0	10.5	20.6	16.4	10.9	6.6	18.0	11.0	12.6	140.3
Maximum flow	n kar kaf	16.0	30.9	32.0	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	30.9	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	0.7	0.2	0.2	0.3	0.3	0.3	0.4	0.7	0.5	1.2	1.2	1.1	7.1
Irrigation delivery Minimum flow	kaf kaf	0.7 1.5	0.2 1.5	0.2 1.5	0.3 3.1	0.3 2.8	0.3 1.5	0.4 1.5	0.7 1.5	0.5 1.5	1.2 1.5	1.2 1.5	1.1 1.5	7.1 20.9
Rels to Horsetooth	kaf	10.4	3.2	4.4	13.5	10.0	20.1	15.8	10.0	5.9	16.6	9.6	11.3	130.8
Namaabaabb Daaamaai	_	т.			00 0 1-6			15	. 7 h-f	M-2	-i 0-		E 0 1-a-6	
Horsetooth Reservoi	·Ľ	11	nitial Con Ele		30.0 kaf 5.71 ft	Ma	ximum Co El		66.7 kaf 9.98 ft	MI	nimum Co. El		5.0 kaf '.06 ft	
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow	kaf	10.4	3.2	4.4	13.5	10.0	20.1	15.8	10.0	5.9	16.6	9.6	11.3	130.8
Total irr delivery	kaf	18.5	1.6	1.6	2.1	2.0	2.1	2.8	8.9	9.9	25.7	32.0	18.8	126.0
_														
Evaporation loss	kaf kaf	0.3	0.1 0.1	0.0	0.0	0.0 0.1	0.2 0.1	0.4	0.7	0.8	0.7	0.5 0.1	0.4 0.1	4.1 1.7
Seepage loss End-Month Targets	kaf	71.5	72.9	75.6	87.0	94.7	112.4	125.0	125.0	120.0	110.0	87.0	79.0	1.7
End-Month Content	kaf	71.5	72.9	75.6	86.8	94.7	112.4	124.8	125.0	120.0	110.0	87.0	79.0	
End-Month Elevation	ft	5379.64	5380.67 5	382.61	5390.33	5395.48	5406.29	5413.36	5413.47	5410.67	5404.88	5390.47	5385.01	
Irrigation demand	kaf	15.6	0.0	0.0	0.0	0.0	0.0	0.1	4.5	5.2	17.4	24.5	13.0	80.3
Metered delivery	kaf	2.5	1.2	1.2	1.7	1.6	1.7	2.3	4.0	4.3	6.8	6.0	4.4	37.7
Windy Gap demand	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.5	1.4	8.0
Total demand Total irr delivery	kaf kaf	18.5 18.5	1.6 1.6	1.6	2.1 2.1	2.0	2.1 2.1	2.8	8.9 8.9	9.9 9.9	25.7 25.7	32.0 32.0	18.8 18.8	126.0 126.0
% 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	39.3	2.5	2.4	3.3	3.1	3.4	9.0	18.6	21.4	45.8	59.5	38.4	246.7
Windy Gap Ownership	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Accrual	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	0.0	0.0	0.0	9.0
Total release	kaf	1.0	0.8	0.8	0.8	0.8	0.8	0.9	2.4	2.8	4.2	3.9	3.4	22.6
Spill	kaf	0.0	0.0 57.7	0.0 56.9	0.0 56.1	0.0	0.0 54.5	0.0	0.0 55.7	0.0	0.0 53.2	0.0	0.0	0.0
End-month Ownership	kaf	58.5	57.7	36.9	36.1	55.3	34.3	53.6	33.7	57.4	55.2	49.3	45.9	
PUMPING AND GENERAT		PERATIONS	- -											
Green Mtn Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Max Generation	gwh	18.600	18.000	9.300	9.300	8.272	8.969	17.136	18.600	18.000	18.600	18.600	18.000	181.377
Generation	gwh	8.804	2.607	1.807	1.686	1.504	1.995	1.583	0.625	0.663	4.330	3.376	2.845	31.825
<pre>% Max Generation Ave kwh/af</pre>	ક્ર	47 182	14 168	19 166	18 164	18 162	22 160	9 158	3 164	4 179	23 184	18 181	16 176	
Ave Kwii/ai		102	100	100	104	102	100	136	104	1/9	104	101	176	
Willow Crk Pumping	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Maximum pumping	kaf	27.7	26.8	0.0	0.0	0.0	27.7	26.8	27.7	26.8	27.7	27.7	26.8	245.7
Actual pumping	kaf	0.0	0.0	0.0	0.0	0.0	2.1	2.1	9.3	2.6	0.8	0.4	0.3	17.6
Pump energy	gwh	0.000	0.000	0.000	0.000	0.000	0.447	0.447 8	1.981	0.554	0.170	0.085	0.064	3.748
<pre>% max pumping Average kwh/af</pre>	ક્ર						8 213	213	34 213	10 213	3 213	1 213	1 213	
-	0000	_		_	_									
Lake Granby Pumping	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Maximum pumping	kaf	36.9	35.7	36.9	36.9	33.3	36.9	35.7	36.9	35.7	36.9	36.9	35.7	434.4
Actual pumping	kaf	29.4	4.7	24.4	32.9	26.0	28.6	11.6	0.0	0.0	22.6	21.6	23.2	225.0
Pump energy % max pumping	gwh %	4.351	0.700 13	3.636	5.001 89	4.056 78	4.547 78	1.879	0.000	0.000	3.480 61	3.391 59	3.689 65	34.730
Average kwh/af	·	148	149	149	152	156	159	162			154	157	159	
Marys Lake Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Adams Tunnel Flow	kaf	30.3	3.8	23.6	33.8	26.8	29.3	17.4	22.2	16.3	29.4	22.2	23.1	
Max generation	gwh	5.380	0.000	0.000	6.060	5.400	6.060	5.840	6.060	5.840	6.060	6.060	5.840	58.600
Generation	gwh	5.360	0.000	0.000	6.060	4.760	5.230	3.080	3.940	2.860	5.240	3.940	4.120	44.590
<pre>% Max Generation Ave kwh/af</pre>	%	100 177			100 179	88 178	86 178	53 177	65 177	49 175	86 178	65 177	71 178	
Anny di		1,,			1,3	1,0	170	1,,	1,,	1,3	1/3	1,,	170	
Lake Estes Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Adams Tunnel Flow	kaf	30.3	3.8	23.6	33.8	26.8	29.3	17.4	22.2	16.3	29.4	22.2	23.1	
Max generation	gwh	14.920		14.920	11.940	10.060	10.450	9.660	9.980	10.060	14.920	14.920	14.450	150.730
Generation % Max Generation	gwh %	13.350 89	1.620 11	10.400 70	11.940 100	10.060 100	10.450 100	7.960 82	9.780 98	7.520 75	12.960 87	9.780 66	10.150 70	115.970
Ave kwh/af		441	426	441	441	439	441	457	441	461	441	441	439	
Pole Hill Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total

Olympus Tunnel f Max generation Generation % Max Generation Ave kwh/af	gwh gwh	30.3 22.720 10.200 45 337	4.1 0.000 0.000	23.6 5.750 4.640 81 546	33.8 25.260 10.200 40 302	26.8 22.800 9.240 41 345	29.3 25.260 10.200 40 348	17.4 24.460 9.880 40 568	26.2 25.260 10.200 40 389	28.5 24.460 9.880 40 347	33.8 25.260 10.200 40 302	22.2 25.260 10.200 40 459	23.1 24.460 9.880 40 428	299.1 250.950 104.720
														TABLE 5B PAGE 4 of 5
Flatiron 1&2 Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow to Flatin Max generation Generation % Max Generation Ave kwh/af	gwh gwh %	30.1 12.050 12.050 100 893	3.9 0.000 0.000	23.4 5.580 5.580 100 821	33.7 12.050 12.050 100 893	26.7 10.880 10.880 100 892	29.2 12.050 12.050 100 893	17.3 11.690 11.690 100 892	26.1 12.050 12.050 100 893	28.4 11.690 11.690 100 892	33.7 12.050 12.050 100 893	22.0 12.050 12.050 100 893	22.9 11.690 11.690 100 892	297.4 123.830 123.830
Flatiron 3 Pump/	Gen 2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul 	Aug	Sep	Total
Maximum pumping Pump from Flatir	kaf on kaf	9.3 8.4	0.0	20.2 18.6	20.1 19.7	16.3 16.2	16.7 8.6	0.0	8.6 8.3	17.0 7.1	18.6 7.1	20.7 3.6	22.1	169.6 100.1
Pump energy % max pumping	gwh %	2.335	0.000	5.320 92	6.245 98	5.670 99	3.216 51	0.000	3.038 97	2.556 42	2.414 38	1.112 17	0.705 11	32.611
Average kwh/af		278		286	317	350	374		366	360	340	309	282	
Release to Flati Maximum generation Actual generation % max generation Average kwh/af	on gwh n gwh	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000	0.0 0.000 0.000
Big Thompson Gen	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Total release Turbine release	kaf kaf	13.2 13.2	0.3	0.0	0.0	0.0	0.0	2.6 2.6	15.7 15.7	23.9 23.9	17.5 17.5	11.7 11.7	10.0 10.0	94.9 94.6
Wasteway release	kaf	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3 27.160
Max generation Generation	gwh gwh	3.940 1.940	0.000	0.000	0.000	0.000	0.000	3.800 0.223	2.340	3.800	3.940 2.700	3.940 1.640	1.300	13.943
<pre>% Max Generation Ave kwh/af</pre>	8	49 147						6 86	59 149	100 159	69 154	42 140	34 130	
PROJECT GENERATI	ON AND PU	MPING SU	MMARY											
Project Generati	on 2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Base Generation: Big Thompson	gwh	1.940	0.000	0.000	0.000	0.000	0.000	0.223	2.340	3.800	2.700	1.640	1.300	13.943
Green Mtn	gwh	8.804	2.607	1.807	1.686	1.504	1.995	1.583	0.625	0.663	4.330	3.376	2.845	31.825
Flatiron 3 Total	gwh gwh	0.000 10.744	0.000 2.607	0.000 1.807	0.000 1.686	0.000 1.504	0.000 1.995	0.000 1.806	0.000 2.965	0.000 4.463	0.000 7.030	0.000 5.016	0.000 4.145	0.000 45.768
Load Following G			0.000	0.000	c 0c0	4 760	F 020	2 000	2 040	0.000	F 040	2 040	4 100	44 500
Marys Lake Lake Estes	-	5.360 13.350	0.000 1.620	0.000 10.400	6.060 11.940	4.760 10.060	5.230 10.450	3.080 7.960	3.940 9.780	2.860 7.520	5.240 12.960	3.940 9.780	4.120 10.150	44.590 115.970
Pole Hill Flatiron 1,2	gwh gwh	10.200 12.050	0.000	4.640 5.580	10.200 12.050	9.240 10.880	10.200 12.050	9.880 11.690	10.200 12.050	9.880 11.690	10.200 12.050	10.200 12.050	9.880 11.690	104.720 123.830
Total	gwh	40.960	1.620	20.620	40.250	34.940	37.930	32.610	35.970	31.950	40.450	35.970	35.840	389.110
Total generation Total max genera		51.704 77.610	4.227 32.450	22.427 35.550	41.936 64.610		39.925 62.789	34.416 72.586		36.413 73.850	47.480 80.830	40.986 80.830	39.985 78.240	434.878 792.647
Project Pump Ene	rgy 2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Granby	gwh	4.351	0.700	3.636	5.001	4.056	4.547	1.879	0.000	0.000	3.480	3.391	3.689	34.730
Willow Creek Flatiron 3	gwh gwh	0.000 2.335	0.000	0.000 5.320	0.000 6.245	0.000 5.670	0.447 3.216	0.447 0.000	1.981 3.038	0.554 2.556	0.170 2.414	0.085 1.112	0.064 0.705	3.748 32.611
Total pump energ	-	6.686	0.700	8.956	11.246	9.726	8.210	2.326	5.019	3.110	6.064	4.588	4.458	71.089
Total net genera	tion gwh	45.018	3.527	13.471	30.690	26.718	31.715	32.090	33.916	33.303	41.416	36.398	35.527	363.789
Release Flexibil	ity 2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Adams Tunnel Adams Tunnel	Min kaf Max kaf	30.3 30.3	3.8 3.8	23.6 23.6	33.8 33.8	26.8 26.8	29.3 29.3	17.4 17.4	22.2 22.2	16.3 16.3	29.4 29.4	22.2 22.2	23.1 23.1	
Marys Lake Marys Lake	Min gwh Max gwh	5.360 5.360	0.000	0.000	6.060 6.060	4.760 4.760	5.230 5.230	3.080 3.080	3.940 3.940	2.860 2.860	5.240 5.240	3.940 3.940	4.120 4.120	
Lake Estes Lake Estes	_	13.350	1.620 1.620	10.400	11.940 11.940	10.060	10.450	7.960 7.960	9.780 9.780	7.520 7.520	12.960 12.960	9.780 9.780	10.150	
Olympus Tunnel Olympus Tunnel	Min kaf Max kaf	30.3	4.1 4.1	23.6 23.6	33.8 33.8	26.8 26.8	29.3 29.3	17.4 17.4	26.2 26.2	28.5 28.5	33.8 33.8	22.2 22.2	23.1 23.1	
Pole Hill Pole Hill	Min gwh Max gwh		0.000	5.750 5.750	25.260 25.260	20.040 20.040	21.910 21.910	13.320 13.320	19.560 19.560	21.300 21.300	25.260 25.260	16.640 16.640		
Flatiron 1&2	Min gwh	12.050	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	

Flatiron 1&2	Max gwh	12.050	0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	
Load following Load following	Min gwh Max gwh													
Total project	_	64.144 64.144												

TABLE 5B PAGE 5 of 5

#### GENERATION CAPACITY AND DURATION May Sep Project Generation 2008 Nov Feb Jun Jul Aug Total Base Generation: Green Mtn 11.8 0.8 0.9 5.8 4.5 4.0 mw Flatiron 3 mw 2.2 6.7 Big Thompson mw 2.6 0.3 3.1 5.3 3.6 1.8 3.6 2.3 2.2 2.7 Total base load 14.4 2.4 2.5 3.9 6.2 mw 9.4 5.8 Load Following Generation: Marys Lake Min Capacity 0.8 0.0 0.0 8.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 mw hr/d 16.2 12.0 Duration 1.6 6.1 3.7 1.9 10.6 6.9 11.0 1.9 6.9 6.4 8.1 8.1 8.1 8.1 8.1 8.1 8.1 Max Capacity mw Duration hr/d 21.8 7.8 16.9 12.0 19.3 21.1 12.4 16.1 12.0 21.2 16.1 16.6 Lake Estes 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Min Capacity mw 0.0 hr/d 12.2 16.2 12.0 11.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Duration Max Capacity 39.3 7.0 29.8 45.0 33.4 36.8 21.3 28.3 19.9 37.0 28.3 29.5 mw Duration hr/d 11.8 7.8 12.0 10.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12.0 Pole Hill 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Min Capacity 34.0 34.0 mw 7.7 hr/d 1.9 15.8 6.7 12.0 2.6 11.2 3.1 12.0 Duration 4.3 4.8 Max Capacity 34.0 11.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 34.0 Duration hr/d 22.2 8.2 17.3 12.0 19.7 21.5 12.8 19.2 20.9 12.0 16.3 17.0 Flatiron 1&2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Min Capacity 0.0 0.0 0.0 0.0 mw Duration hr/d 11.6 16.1 12.0 8.7 12.0 11.9 11.4 12.0 12.0 8.7 12.0 12.0 Max Capacity mw 78.4 13.0 57.2 86.0 66.1 74.8 43.3 64.3 71.6 86.0 54.0 55.8 hr/d 7.9 12.0 11.9 12.6 12.0 Duration 11.6 10.0 12.0 12.0 10.0 12.0 12.0 Total Load Following Min Capacity mw 0.8 0.0 0.0 42.1 0.0 0.0 0.0 0.0 0.0 34.0 0.0 0.0 Max Capacity mw 159.8 33.7 129.1 173.1 141.6 153.7 106.7 134.7 133.3 165.1 124.4 127.4 Total Project Capacity

Min Capacity

Max Capacity

15.2

174.2

mw

mw

3.6

37.3

2.4

131.5

44.4

175.4

2.2

143.8

2.7

156.4

2.5

109.2

3.9

138.6

6.2

139.5

43.4

174.5

6.7

133.2

131.1

CBTAOP V1.10 Run: 19-Nov-2008 12:32

Maximum Reasonable Plan (Oct=80% Quota; Nov-Sep=60% Quota)

#### COLORADO-BIG THOMPSON MONTHLY OPERATIONS

#### HYDROLOGY OPERATIONS

Green Mtn Reservoir		Ir	nitial Con	t 10	09.5 kaf	Ma	aximum Con	t 15	53.6 kaf	M:	inimum Co	ont	6.0 kaf	
_			Ele		6.79 ft		Elev		9.91 ft	_			.72 ft	
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Dillon Inflow	kaf	8.2	6.1	4.4	4.0	3.6	4.3	7.7	41.0	110.4	73.2	28.9	10.3	302.1
	kaf	8.8	6.4	4.2	3.8	3.2	4.1	8.3	28.6	70.4	48.0	21.2	10.0	217.0
Undepleted Inflow	kaf	17.0	12.5	8.6	7.8	6.8	8.4	16.0	69.6	180.8	121.2	50.1	20.3	519.1
Depletion	kaf	2.1	0.7	-1.2	-1.0	-2.1	1.2	4.6	36.3	12.0	8.0	4.0	3.4	68.0
Depleted Inflow	kaf	14.9	11.8	9.8	8.8	8.9	7.2	11.4	33.3	168.8	113.2	46.1	16.9	451.1
Turbine Release	kaf	48.5	15.5	12.7	11.7	11.3	10.5	9.8	10.1	93.0	89.0	51.4	45.9	409.4
Spill/Waste	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	14.1	0.0	0.0	31.2
-	kaf	48.5	15.5	12.7	11.7	11.3	10.5	9.8	10.1	110.1	103.1	51.4	45.9	440.6
Min Release	cfs	789	260	207	190	204	171	165	164	1850	1677	836	771	
Total River Release	cfs	789	260	207	190	203	171	165	164	1850	1677	836	771	
Evaporation	kaf	0.3	0.1	0.0	0.0	0.0	0.2	0.3	0.5	0.8	0.8	0.7	0.6	4.3
End-Month Targets	kaf	0.5	0.1	0.0	0.0	0.0	0.2	75.0	90.0	145.0	152.0	0.7	0.0	4.5
End-Month Content	kaf	75.6	71.8	68.9	66.0	63.6	60.1	61.4	84.1	142.0	151.3	145.3	115.7	
End-Month Elevation	ft	7903.74	7900.71 7	898.32	7895.85	7893.74	7890.54 78	891.75	7910.14	7944.30	7948.82	7945.93	7930.38	
Willow Crk Reservoir		Ir	nitial Con		6.2 kaf	Ma	aximum Con		10.2 kaf	M:	inimum Co		5.0 kaf	
	2000	0-4	Ele		1.82 ft	n.1.	Ele		8.83 ft	<b></b>			1.78 ft	m 1
	2008	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Native Inflow	kaf	1.2	1.2	0.8	0.8	0.7	1.0	5.9	30.2	31.8	7.1	3.0	1.5	85.2
Min Release	kaf	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	2.6	2.2	0.5	0.4	11.5
Spill/Bypass	kaf	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.1
Total River Release	kaf	1.5	0.8	0.4	0.4	0.4	0.4	0.4	1.5	3.7	2.2	0.5	0.4	12.6
Pumped to Granby	kaf	0.0	0.0	0.0	0.0	0.0	3.0	3.3	26.8	26.8	6.0	1.7	1.7	69.3
Evaporation End-Month Targets	kaf kaf	0.0 5.9	0.0 7.2	0.0	0.0	0.0	0.0	0.0 7.2	0.1 9.0	0.1 10.0	0.1 9.0	0.1	0.1 9.0	0.5
End-Month Content	kaf	5.9	6.3	6.7	7.1	7.4	5.0	7.2	9.0	10.0	9.0	9.7	9.0	
End-Month Elevation							8104.78 83							
Lake Granby		Ir	nitial Con		08.3 kaf	Ma	aximum Con		36.1 kaf	M:	inimum Co		6.5 kaf	
-			Ele	v 8260	0.73 ft		Ele	v 8279	9.50 ft		E]	Lev 8186	.91 ft	
-	2008	Ir Oct			0.73 ft Jan	Ma Feb				M: Jun				Total
		0ct	Ele Nov	v 8260 Dec	Jan	Feb	Elev Mar	v 8279 Apr	9.50 ft May	Jun	El Jul	Lev 8186 Aug	5.91 ft Sep	
Native inflow	2008  kaf kaf		Ele	v 8260	0.73 ft Jan		Ele	v 8279	9.50 ft		E]	Lev 8186	.91 ft	Total  130.6 121.1
Native inflow	kaf	Oct 2.3	Nov	v 8260 Dec 	0.73 ft Jan  1.4	Feb	Elev Mar 	v 8279 Apr  6.7	9.50 ft May  24.0	Jun 54.6	El Jul 24.1	Lev 8186 Aug  8.6	5.91 ft Sep 	130.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap	kaf kaf	Oct 2.3 2.2	Nov 	Dec 1.4 2.8 0.0 0.0	0.73 ft Jan  1.4 1.2	Feb 1.2 1.1	Eler Mar  1.5 1.2	Apr 6.7 1.2 0.0 3.3	9.50 ft May  24.0 17.2	Jun 54.6 73.4 0.0 26.8	Jul  24.1 11.4 0.0 6.0	Aug  8.6 4.6	3.4 2.1 0.0 1.7	130.6 121.1 0.0 69.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap	kaf kaf kaf kaf	Oct  2.3 2.2 0.0	Nov 	Dec 1.4 2.8 0.0	Jan  1.4 1.2 0.0	Feb  1.2 1.1 0.0	Mar 	Apr 6.7 1.2 0.0	9.50 ft May 24.0 17.2 0.0	Jun  54.6 73.4 0.0	Jul  24.1 11.4 0.0	Aug  8.6 4.6 0.0	3.4 2.1 0.0	130.6 121.1 0.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow	kaf kaf kaf kaf kaf	Oct  2.3 2.2 0.0 0.0 4.5	Nov 	Per 8260 Dec 1.4 2.8 0.0 0.0 4.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3	1.5 1.2 0.0 3.0 5.7	Apr 6.7 1.2 0.0 3.3 11.2	9.50 ft May 24.0 17.2 0.0 26.8 68.0	Jun  54.6 73.4 0.0 26.8 154.8	Jul  24.1 11.4 0.0 6.0 41.5	Aug  8.6 4.6 0.0 1.7 14.9	3.4 2.1 0.0 1.7	130.6 121.1 0.0 69.3 321.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release	kaf kaf kaf kaf kaf	Oct 	Nov 	92 8260 Dec 1.4 2.8 0.0 0.0 4.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3	Elec Mar 1.5 1.2 0.0 3.0 5.7	** 8279 **Apr 6.7 1.2 0.0 3.3 11.2	9.50 ft May 24.0 17.2 0.0 26.8 68.0	Jun 54.6 73.4 0.0 26.8 154.8	EJ Jul  24.1 11.4 0.0 6.0 41.5	Aug	3.4 2.1 0.0 1.7 7.2	130.6 121.1 0.0 69.3 321.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass	kaf kaf kaf kaf kaf kaf	Oct 	Nov	92 8260 Dec 1.4 2.8 0.0 0.0 4.2	7.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0	Elev Mar 1.5 1.2 0.0 3.0 5.7	*** 8279 ************************************	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0	24.1 11.4 0.0 6.0 41.5	Aug	3.4 2.1 0.0 1.7 7.2	130.6 121.1 0.0 69.3 321.0 24.6 0.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass	kaf kaf kaf kaf kaf	Oct 	Nov 	92 8260 Dec 1.4 2.8 0.0 0.0 4.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3	Elec Mar 1.5 1.2 0.0 3.0 5.7	** 8279 **Apr 6.7 1.2 0.0 3.3 11.2	9.50 ft May 24.0 17.2 0.0 26.8 68.0	Jun 54.6 73.4 0.0 26.8 154.8	EJ Jul  24.1 11.4 0.0 6.0 41.5	Aug	3.4 2.1 0.0 1.7 7.2	130.6 121.1 0.0 69.3 321.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass	kaf kaf kaf kaf kaf kaf	Oct 	Nov	92 8260 Dec 1.4 2.8 0.0 0.0 4.2	7.73 ft Jan 1.4 1.2 0.0 0.0 2.6	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0	Elev Mar 1.5 1.2 0.0 3.0 5.7	*** 8279 ************************************	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0	24.1 11.4 0.0 6.0 41.5	Aug	3.4 2.1 0.0 1.7 7.2	130.6 121.1 0.0 69.3 321.0 24.6 0.0
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation	kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4	1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2	ev 8260 Dec 1.4 2.8 0.0 0.0 4.2 1.2 0.0 1.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2	9.50 ft May	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8	EJ Jul 	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3	5.91 ft Sep 	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss	kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3	Ele Nov 1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3	ev 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3	9.50 ft May	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8	EJ Jul 	Rev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5	3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content	kaf kaf kaf kaf kaf kaf kaf kaf	Oct	1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3 377.6	24.4 0.3 355.7	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2	Element	v 8279 Apr 	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 336.0	Jun	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8	Rev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4	5.91 ft Sep 	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss	kaf kaf kaf kaf kaf kaf kaf kaf	Oct	1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3 377.6	24.4 0.3 355.7	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2	Element	v 8279 Apr 	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 336.0	Jun	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8	Rev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4	5.91 ft Sep 	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content	kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3 377.6	24.4 0.2 24.4 0.3 355.7 252.14	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2 8242.22	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 336.0	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8	Aug	5.91 ft Sep 	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation	kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23	Ele Nov 1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8	8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2 8242.22	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 0.0 1.2 0.3 274.9 237.66	9.50 ft  May  24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 0.3 336.0 8248.77	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn	kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 itial Com Ele Nov	NV 8260 Dec	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2 8242.22	Element   Mar	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 0.0 1.2 0.3 274.9 237.66	9.50 ft May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 0.3 336.0 8248.77	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn	kaf kaf kaf kaf kaf kaf kaf kaf ft	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 38256.23 Ir	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2  4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov	24.4 0.2 0.3 355.7 252.14	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan	Feb	Element   Mar	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 t Apr	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May	Jun	24.1 11.4 0.0 6.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 ont 1 Lev 8366 Aug	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 5.02 ft Sep	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov 2.0	24.4 0.2 0.3 355.7 2252.14 20 8366 20 8366 20 8366	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1	Feb	Element	8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77	Jun	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc EJ Jul 36.2	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 ont 1 Lev 8366 Aug 12.8	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2  4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov  2.0 4.7	24.4 0.2 0.3 355.7 252.14 28 0.0 0.0 0.0 0.0 1.2 24.4 0.2 0.3 355.7 252.14	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9	Feb	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 bt 36 v 836 Apr	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 0.0	Jun	24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 cont 1 Lev 8366 Aug 12.8 0.0	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov 2.0	24.4 0.2 0.3 355.7 2252.14 20 8366 20 8366 20 8366	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1	Feb	Element	8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98 M:  Jun 81.8 8 0.0 0.0 0.0	24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 cont 1 Lev 8366 Aug 12.8 0.0	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9	Ele Nov  1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 8255.79 8 hitial Con Ele Nov 2.0 4.7 6.7	24.4 0.2 0.3 355.7 252.14 28 0.0 0.0 0.0 0.0 1.2 24.4 0.2 0.3 355.7 252.14	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft Jan 2.1 32.9	Feb	Element   Mar	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 bt 36 v 836 Apr	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 0.0 36.1	Jun 54.6 73.4 0.00 26.8 154.8 4.7 0.00 4.7 0.00 2.8 0.4 482.9 8271.98 M:  Jun 81.8 0.0 81.8	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 ont 1 Lev 8366 Aug 12.8 0.0 12.8	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Value inflow Pumped from Granby Total Inflow Min River Release	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9	Ele Nov  1.4 2.7 0.0 0.0 4.1 1.2 0.0 1.2 4.7 0.6 8255.79 8 hitial Con Ele Nov 2.0 4.7 6.7	24.4 0.2 0.3 3355.7 252.14 4.2 24.4 0.2 0.3 355.7 252.14 4.2 0.2 0.3 0.3 0.2 0.3 0.2 0.3 0.3 0.2 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 33.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1 32.9 35.0	Feb	Element	8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 t 836 Apr 10.1 8.4 18.5	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 336.7 18.4 kaf 7.00 ft May 36.1 0.0 36.1	Jun 54.6 73.4 0.00 26.8 154.8 4.7 0.00 4.7 0.00 2.8 0.4 482.9 8271.98 M:  Jun 81.8 0.0 81.8	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2	Lev 8186 Aug	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3 10.4	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.55 29.4 32.9 2.2 0.0	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov  2.0 4.7 6.7	24.4 0.2 0.3 355.7 252.14 24.4 0.2 0.3 24.4 0.2 0.3 24.4 0.2 0.3 252.14	0.73 ft     Jan  1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 5.68 ft     Jan 2.1 32.9 35.0 1.2	Feb	Element	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 t 18.5 1.8.4 18.5	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 0.0 36.1	Jun	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 cnt 1 Lev 8366 Aug 12.8 0.0 12.8	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3 10.4 2.1	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Value of the Content Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9 2.2 0.0 2.2	Ele Nov	24.4 0.2 0.3 355.7 2252.14 24.4 26.5 2.8 0.0 0.0 2.8	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1 32.9 35.0 1.2	Feb 1.2 1.1 0.0 0.0 2.3 1.1 0.0 1.1 25.6 0.0 0.3 299.2 8242.22 Ma Feb 1.9 25.6 27.5 1.1 0.0 1.1	Element   Mar	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.99 237.66 t 3.6 Apr 10.1 8.4 18.5 1.2 0.0 1.2	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 0.0 36.1 1.2 16.0 17.2	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98 M: Jun 81.8 0.0 81.8 3.0 70.4 73.4	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 0.5 517.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2 3.1 8.3 11.4	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 Ont 1 Lev 8366 Aug 12.8 0.0 12.8 2.5 2.1 4.6	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3 10.4 2.1 0.0 2.1	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3  Total 195.9 158.6 354.5 24.3 96.8 121.1
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Native inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release Adams Tunnel Flow	kaf kaf kaf kaf kaf kaf kaf kaf kaf ft	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9 2.2 0.0 2.2 30.3	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 hitial Con Ele Nov  2.0 4.7 6.7 2.7 0.0 2.7	24.4 0.2 0.3 355.7 1252.14 24.4 0.2 0.3 355.7 1252.14 24.4 26.5 2.8 0.0 0.0 0.2	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1 32.9 35.0 1.2 33.8	Feb	Elev Mar 1.5 1.2 0.0 3.0 5.7 1.2 0.0 1.2 27.9 0.7 0.3 274.8 8237.64 82 8237.64 82 Aximum Conv Elev Mar -2.2 27.9 30.1 1.2 27.9	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.9 237.66 b 836' Apr  10.1 8.4 18.5 1.2 0.0 18.4 18.5	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 1.2 16.0 17.2 18.2	Jun	EJ Jul 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2 3.1 8.3 11.4	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 cont 1 Lev 8366 Aug 12.8 0.0 12.8 2.5 2.1 4.6	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6.6 kaf 6.02 ft Sep 5.1 5.3 10.4 2.1 0.0 2.1 7.8	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3  Total  195.9 158.6 354.5 24.3 96.8 121.1
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Antive inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release Adams Tunnel Flow Evaporation	kaf kaf kaf kaf kaf kaf kaf kaf kaf ft	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 8256.23 Ir Oct 3.5 29.4 32.9 2.2 0.0 2.2	Ele Nov  1.4 2.7 0.0 0.0 4.1  1.2 0.0 1.2 4.7 0.6 0.3 377.6 8255.79 8 aitial Cone Nov 2.0 4.7 6.7 2.7 0.0 2.7 3.8 0.2	24.4 0.2 0.3 355.7 252.14 26.5 2.8 0.0 2.8 23.6 0.1	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1 32.9 35.0 1.2 0.0 1.2	Feb	Element	v 8279 Apr 	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.0 8248.77 18.4 kaf 7.00 ft May 36.1 0.0 36.1 1.2 16.0 17.2	Jun 54.6 73.4 0.0 26.8 154.8 4.7 0.0 4.7 0.0 2.8 0.4 482.9 8271.98 M: Jun 81.8 0.0 81.8 3.0 70.4 73.4	EJ Jul 24.1 11.4 0.0 6.0 41.5 3.3 0.0 3.3 0.0 2.8 8276.95 inimum Cc EJ Jul 36.2 0.0 36.2 3.1 8.3 11.4 24.1	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 ent 1 Lev 8366 Aug 12.8 0.0 12.8 2.5 2.1 4.6	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3 10.4 2.1 0.0 2.1 7.8	130.6 121.1 0.0 69.3 321.0 24.6 0.0 24.6 158.6 16.1 4.3  Total 195.9 158.6 354.5 24.3 96.8 121.1
Native inflow Rels frm Shadow Mtn Pump frm Windy Gap Pump frm Willow Crk Total Inflow Min River Release Spill/Bypass Total River Release Pumped to Shadow Mtn Evaporation Seepage loss End-Month Content End-Month Elevation Shadow Mtn  Antive inflow Pumped from Granby Total Inflow Min River Release Spill/Bypass Total River Release Adams Tunnel Flow Evaporation	kaf kaf kaf kaf kaf kaf kaf kaf kaf kaf	Oct 2.3 2.2 0.0 0.0 4.5 1.4 0.0 1.4 29.4 1.4 0.3 380.3 38256.23 IT Oct 3.5 29.4 32.9 2.2 0.0 2.2 30.3 0.4 17.8	Ele Nov	24.4 0.2 0.3 355.7 252.14 24.4 26.5 2.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.73 ft Jan 1.4 1.2 0.0 0.0 2.6 1.2 0.0 1.2 32.9 0.0 0.3 323.9 8246.66 17.8 kaf 6.68 ft Jan 2.1 32.9 35.0 1.2 0.0 1.2	Feb	Element   Mar	v 8279 Apr 6.7 1.2 0.0 3.3 11.2 1.2 0.0 1.2 8.4 1.2 0.3 274.99 237.66 t 3.4 4pr 10.1 8.4 18.5 1.2 0.0 1.2 1.2 0.3 274.99 217.66	9.50 ft  May 24.0 17.2 0.0 26.8 68.0 4.6 0.0 4.6 0.0 2.0 0.3 336.1 8.4 kaf 7.00 ft May 36.1 0.0 36.1 1.2 16.0 17.2 18.2 0.7	Jun	EJ Jul	Lev 8186 Aug 8.6 4.6 0.0 1.7 14.9 2.5 0.0 2.5 0.0 2.3 0.5 527.4 8278.29 ont 1 Lev 8366 Aug 12.8 0.0 12.8 2.5 2.1 4.6 0.6 17.8	5.91 ft Sep 3.4 2.1 0.0 1.7 7.2 1.0 0.0 1.0 5.3 2.1 0.5 525.7 8278.05 6.6 kaf 6.02 ft Sep 5.1 5.3 10.4 2.1 0.0 2.1 7.8 0.5	Total

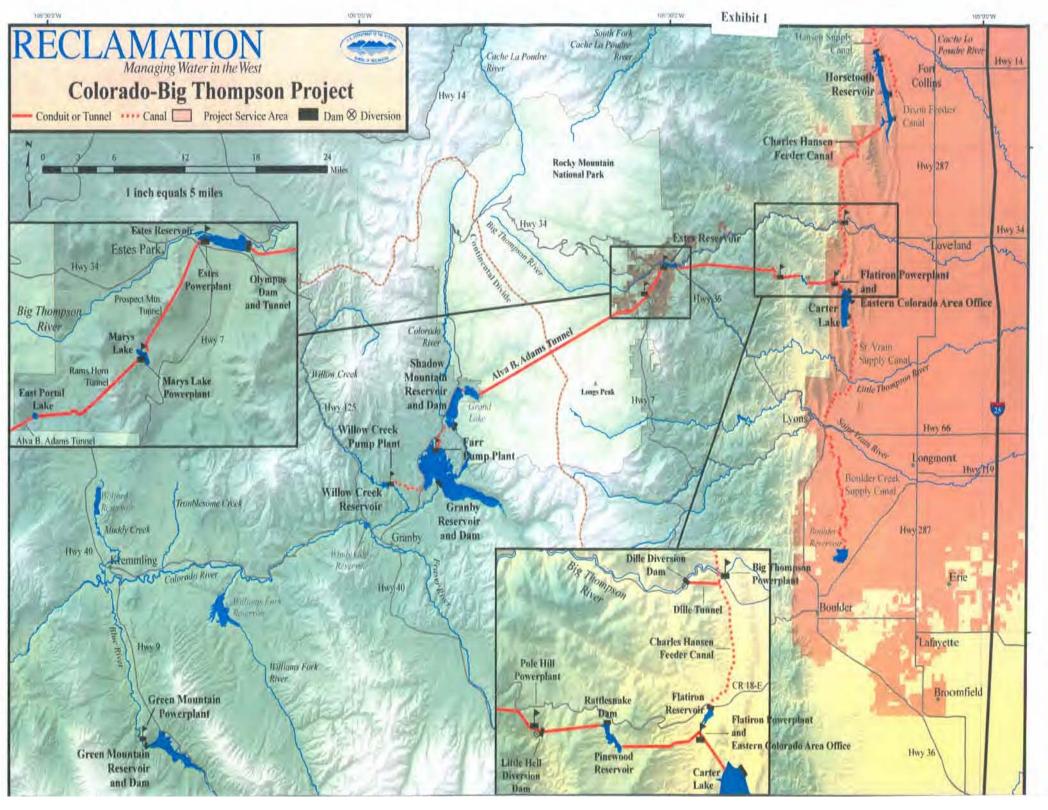
Adams Tunnel	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Max Tunnel Capacity Actual delivery	kaf kaf	33.8 30.3	16.4 3.8	33.8 23.6	33.8 33.8	30.5 26.4	33.8 28.6	32.7 16.9	33.8 18.2	32.7 7.6	33.8 24.1	33.8 7.6	32.7 7.8	381.6 228.7
% max delivery	Rai %	90	23	70	100	87	85	52	54	23	71	22	24	220.7
·														
Big T @ Lake Estes 2	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Dia mhanna i si	16		1.0		1.0				17.6			12.6		104.0
Big Thompson inflow Min river release	kaf kaf	2.6 3.1	1.8 1.5	1.2	1.0 1.5	0.7 1.4	1.0 1.5	2.9	17.6 6.9	50.5 7.4	26.0 7.7	13.6 6.9	6.0 3.7	124.9 45.3
Act river release	kaf	2.6	1.5	1.2	1.0	0.7	1.0	2.2	6.9	25.4	16.3	6.9	3.7	69.4
Skim water available		0.0	0.3	0.0	0.0	0.0	0.0	0.7	10.7	43.1	18.3	6.7	2.3	82.1
Skim water diverted	kaf	0.0	0.3	0.0	0.0	0.0	0.0	0.7	10.7	25.1	9.7	6.7	2.3	55.5
<pre>% skim diverted</pre>	용		100					100	100	58	53	100	100	
T	1 6	0.0			0.0	0.0	0.0			0.0	0.0			
Irrigation demand Irrigation delivery	kaf 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	2.6	1.5	1.2	1.0	0.7	1.0	2.2	6.9	25.4	16.3	6.9	3.7	69.4
Olympus Tunnel	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Max Tunnel Capacity	kaf	30.4	16.4	25.4	33.8	30.5	33.8	32.7	33.8	32.7	33.8	33.8	32.7	369.8
Actual delivery	kaf	30.3	4.1	23.4	33.8	26.4	28.6	17.6	28.9	32.7	33.8	14.3	10.1	284.2
% max delivery	용	100	25	93	100	87	85	54	86	100	100	42	31	
Seepage and Evap	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
Inflow to Flatiron	kaf	30.1	3.9	23.4	33.7	26.3	28.5	17.5	28.8	32.6	33.7	14.1	9.9	282.5
Carter Lake		Ir	nitial Co	nt 5	3.4 kaf	Ma	ximum Co	nt 11	2.2 kaf	Mi	nimum Co	nt 1	1.2 kaf	
			E1	.ev 5701	.36 ft		El	.ev 5758	.98 ft		El	ev 5639	.99 ft	
2	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Pump from Flatiron	kaf	8.4	0.0	18.6	19.9	16.2	8.1	0.0	8.3	2.1	6.2	0.0	0.0	87.8
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	0.2	0.1	0.0	0.0	0.0	0.2	0.3	0.4	0.5	0.4	0.3	0.3	2.7
Seepage loss	kaf	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	1.7
End-Month Targets	kaf	50.8 50.8	49.0 49.1	66.2 66.2	84.7 84.4	99.4 99.0	105.0 105.0	102.0 99.1	107.0 100.4	93.0 93.0	85.0 85.0	61.0 68.5	49.0 58.0	
End-Month Content End-Month Elevation	kaf f+		5696.42											
Ind Month Dievation		3030.33	3030.42	3713.20	3733.30	3747.10	3732.01	3747.20	3740.40	3741.03	3734.00	3717.07	3700.30	
Irrigation demand	kaf	7.5	0.0	0.0	0.0	0.0	0.0	3.3	2.1	3.6	7.7	10.6	5.7	40.5
Irrigation demand Metered delivery	kaf	2.6	1.1	1.0	1.2	1.1	1.3	1.6	2.3	2.8	3.6	3.4	2.7	24.7
Metered delivery Windy Gap demand	kaf kaf	2.6 0.6	1.1 0.4	1.0 0.4	1.2 0.4	1.1 0.4	1.3 0.4	1.6 0.5	2.3 2.0	2.8 2.4	3.6 2.3	3.4 2.1	2.7 1.7	24.7 13.6
Metered delivery Windy Gap demand Total demand	kaf kaf kaf	2.6 0.6 10.7	1.1 0.4 1.5	1.0 0.4 1.4	1.2 0.4 1.6	1.1 0.4 1.5	1.3 0.4 1.7	1.6 0.5 5.4	2.3 2.0 6.4	2.8 2.4 8.8	3.6 2.3 13.6	3.4 2.1 16.1	2.7 1.7 10.1	24.7 13.6 78.8
Metered delivery Windy Gap demand Total demand Total delivery	kaf kaf kaf kaf	2.6 0.6 10.7 10.7	1.1 0.4 1.5 1.5	1.0 0.4 1.4 1.4	1.2 0.4 1.6 1.6	1.1 0.4 1.5 1.5	1.3 0.4 1.7 1.7	1.6 0.5 5.4 5.4	2.3 2.0 6.4 6.4	2.8 2.4 8.8 8.8	3.6 2.3 13.6 13.6	3.4 2.1 16.1 16.1	2.7 1.7 10.1 10.1	24.7 13.6
Metered delivery Windy Gap demand Total demand	kaf kaf kaf	2.6 0.6 10.7	1.1 0.4 1.5	1.0 0.4 1.4	1.2 0.4 1.6	1.1 0.4 1.5	1.3 0.4 1.7	1.6 0.5 5.4	2.3 2.0 6.4	2.8 2.4 8.8	3.6 2.3 13.6	3.4 2.1 16.1	2.7 1.7 10.1	24.7 13.6 78.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage	kaf kaf kaf kaf % kaf	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100	1.0 0.4 1.4 1.0 0.0	1.2 0.4 1.6 1.6 100 0.0	1.1 0.4 1.5 1.5 100	1.3 0.4 1.7 1.7 100	1.6 0.5 5.4 5.4 100 0.0	2.3 2.0 6.4 6.4 100 0.0	2.8 2.4 8.8 8.8 100 0.0	3.6 2.3 13.6 13.6 100 0.0	3.4 2.1 16.1 16.1 100 0.0	2.7 1.7 10.1 10.1 100 0.0	24.7 13.6 78.8 78.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 2	kaf kaf kaf kaf	2.6 0.6 10.7 10.7	1.1 0.4 1.5 1.5	1.0 0.4 1.4 1.4	1.2 0.4 1.6 1.6	1.1 0.4 1.5 1.5	1.3 0.4 1.7 1.7	1.6 0.5 5.4 5.4 100	2.3 2.0 6.4 6.4 100	2.8 2.4 8.8 8.8	3.6 2.3 13.6 13.6	3.4 2.1 16.1 16.1	2.7 1.7 10.1 10.1	24.7 13.6 78.8 78.8 0.0
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930	kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100 0.0	1.0 0.4 1.4 1.4 100 0.0	1.2 0.4 1.6 1.6 100 0.0	1.1 0.4 1.5 1.5 100 0.0	1.3 0.4 1.7 1.7 100 0.0	1.6 0.5 5.4 5.4 100 0.0	2.3 2.0 6.4 6.4 100 0.0	2.8 2.4 8.8 8.8 100 0.0	3.6 2.3 13.6 13.6 100 0.0	3.4 2.1 16.1 16.1 100 0.0	2.7 1.7 10.1 10.1 100 0.0 Sep	24.7 13.6 78.8 78.8 0.0
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 2	kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100	1.0 0.4 1.4 1.0 0.0	1.2 0.4 1.6 1.6 100 0.0	1.1 0.4 1.5 1.5 100	1.3 0.4 1.7 1.7 100	1.6 0.5 5.4 5.4 100 0.0	2.3 2.0 6.4 6.4 100 0.0	2.8 2.4 8.8 8.8 100 0.0	3.6 2.3 13.6 13.6 100 0.0	3.4 2.1 16.1 16.1 100 0.0	2.7 1.7 10.1 10.1 100 0.0	24.7 13.6 78.8 78.8 0.0
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930	kaf kaf kaf kaf kaf 2008	2.6 0.6 10.7 10.7 100 0.0	1.1 0.4 1.5 1.5 100 0.0 Nov	1.0 0.4 1.4 1.0 0.0 Dec	1.2 0.4 1.6 1.6 100 0.0 Jan 	1.1 0.4 1.5 1.5 100 0.0 Feb	1.3 0.4 1.7 1.7 100 0.0 Mar 	1.6 0.5 5.4 5.4 100 0.0 Apr	2.3 2.0 6.4 6.4 100 0.0 May	2.8 2.4 8.8 8.8 100 0.0 Jun 	3.6 2.3 13.6 13.6 100 0.0 Jul	3.4 2.1 16.1 16.1 100 0.0 Aug	2.7 1.7 10.1 10.1 100 0.0 Sep	24.7 13.6 78.8 78.8 0.0 Total
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow	kaf kaf kaf kaf 2008  kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3 3.9	1.0 0.4 1.4 1.0 0.0 Dec  1.5 57.2 4.8	1.2 0.4 1.6 1.6 100 0.0 Jan  6.1 57.2 13.8	1.1 0.4 1.5 1.5 100 0.0 Feb  5.6 51.6	1.3 0.4 1.7 1.7 100 0.0 Mar 	1.6 0.5 5.4 5.4 100 0.0 Apr  1.5 27.7 17.5	2.3 2.0 6.4 6.4 100 0.0 May  1.5 57.2 20.5	2.8 2.4 8.8 8.8 100 0.0 Jun  1.5 55.3 30.5	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2 27.5	3.4 2.1 16.1 16.1 100 0.0 Aug  1.5 57.2 14.1	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3 9.9	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow	kaf kaf kaf kaf 2008  kaf	2.6 0.6 10.7 10.7 100 0.0 Oct	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3	1.0 0.4 1.4 1.0 0.0 Dec  1.5 57.2	1.2 0.4 1.6 1.6 100 0.0 Jan 	1.1 0.4 1.5 1.5 100 0.0 Feb	1.3 0.4 1.7 1.7 100 0.0 Mar  6.1 57.2	1.6 0.5 5.4 5.4 100 0.0 Apr  1.5 27.7	2.3 2.0 6.4 6.4 100 0.0 May	2.8 2.4 8.8 8.8 100 0.0 Jun  1.5 55.3	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2	3.4 2.1 16.1 10.0 0.0 Aug  1.5 57.2	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3	24.7 13.6 78.8 78.8 0.0 Total
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow	kaf kaf kaf kaf 2008  kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3 3.9	1.0 0.4 1.4 1.0 0.0 Dec  1.5 57.2 4.8	1.2 0.4 1.6 1.6 100 0.0 Jan  6.1 57.2 13.8	1.1 0.4 1.5 1.5 100 0.0 Feb  5.6 51.6	1.3 0.4 1.7 1.7 100 0.0 Mar 	1.6 0.5 5.4 5.4 100 0.0 Apr  1.5 27.7 17.5	2.3 2.0 6.4 6.4 100 0.0 May  1.5 57.2 20.5	2.8 2.4 8.8 8.8 100 0.0 Jun  1.5 55.3 30.5	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2 27.5	3.4 2.1 16.1 16.1 100 0.0 Aug  1.5 57.2 14.1	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3 9.9	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow Dille Tunnel	kaf kaf kaf kaf 2008  kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.5 100 0.0 Nov  1.5 55.3 3.9 Nov	1.0 0.4 1.4 1.00 0.0 Dec 1.5 57.2 4.8	1.2 0.4 1.6 1.0 0.0 Jan 	1.1 0.4 1.5 1.5 100 0.0 Feb 5.6 51.6 10.1	1.3 0.4 1.7 1.7 100 0.0 Mar 	1.6 0.5 5.4 5.4 100 0.0 Apr  1.5 27.7 17.5	2.3 2.0 6.4 6.4 100 0.0 May	2.8 2.4 8.8 8.8 100 0.0 Jun  1.5 55.3 30.5	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul	3.4 2.1 16.1 10.0 0.0 Aug  1.5 57.2 14.1 Aug	2.7 1.7 10.1 10.0 0.0 Sep  1.5 55.3 9.9 Sep	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 Minimum flow Maximum flow Actual flow Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes)	kaf kaf kaf kaf 2008  kaf kaf kaf 2008  kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.0 0.0 Dec 	1.2 0.4 1.6 1.0 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 	1.3 0.4 1.7 1.7 100 0.0 Mar 57.2 20.4 Mar 1.8 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0	3.6 2.3 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul  37.7 9.7 0.0	3.4 2.1 16.1 10.0 0.0 Aug  1.5 57.2 14.1 Aug  20.1 6.7 0.0	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3 9.9 Sep  7.6 2.3 0.0	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930 2 Minimum flow Maximum flow Actual flow Dille Tunnel 2 Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release	kaf kaf kaf kaf 2008 kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.2 0.4 1.6 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0	1.3 0.4 1.7 1.0 0.0 Mar 6.1 57.2 20.4 Mar 1.8 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr  1.5 27.7 17.5 Apr  6.9 0.7 0.0 0.1.2	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 0 1.2	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2	3.6 2.3 13.6 13.6 100 0.0 Jul 	3.4 2.1 16.1 10.0 0.0 Aug  1.5 57.2 14.1 Aug  20.1 6.7 0.0 0.2.9	2.7 1.7 10.1 10.1 100 0.0 Sep 	24.7 13.6 78.8 78.8 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930  Minimum flow Maximum flow Actual flow Dille Tunnel  Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available	kaf kaf kaf kaf 2008  kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.2 0.4 1.6 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr  6.9 0.7 0.0 1.2 5.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2	3.4 2.1 16.1 100 0.0 Aug  1.5 57.2 14.1 Aug  20.1 6.7 0.0 2.9 10.5	2.7 1.7 10.1 100.1 100 0.0 Sep  1.5 55.3 9.9 Sep  7.6 2.3 0.0 1.7 3.6	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kaf kaf kaf kaf 2008 kaf kaf kaf kaf kaf	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.00 0.0 Dec 	1.2 0.4 1.6 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0	1.3 0.4 1.7 1.0 0.0 Mar 6.1 57.2 20.4 Mar 1.8 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.7 0.0 1.2 5.0 5.0	2.3 2.0 6.4 100 0.0  May 1.5 57.2 20.5  May 29.2 10.7 0.0 1.2 17.3 12.2	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2	3.6 2.3 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2 12.0	3.4 2.1 16.1 100 0.0 Aug  1.5 57.2 14.1 Aug  20.1 6.7 0.0 2.9 10.5 10.5	2.7 1.7 10.1 10.1 100 0.0 Sep 	24.7 13.6 78.8 78.8 0.0 Total 
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage Hansen Canal 930  Minimum flow Maximum flow Actual flow Dille Tunnel  Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available	kaf kaf kaf kaf % kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov  1.5 55.3 3.9 Nov  2.3 0.3 0.0 0.0	1.0 0.4 1.4 1.00 0.0 Dec 	1.2 0.4 1.6 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.7 0.0 1.2 5.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2	3.6 2.3 13.6 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2	3.4 2.1 16.1 100 0.0 Aug  1.5 57.2 14.1 Aug  20.1 6.7 0.0 2.9 10.5	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3 9.9 Sep  7.6 2.3 0.0 1.7 3.6 3.6	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works	kaff kaff % kaff % kaff kaff kaff kaff k	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.0 0.0 Dec 	1.2 0.4 1.66 1.00 0.0 Jan 57.2 13.8 Jan 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0	1.3 0.4 1.7 1.7 100 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.1 0.0 Mar	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.7 0.0 1.2 5.0 5.0	2.3 2.0 6.4 100 0.0  May 1.5 57.2 20.5  May 29.2 10.7 0.0 1.2 17.3 12.2 71	2.8 2.4 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun	3.6 2.3 13.6 100 0.0 Jul 1.5 57.2 27.5 Jul 37.7 9.7 0.0 1.8 26.2 12.0 46 Jul	3.4 2.1 16.1 100 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 100  Aug	2.7 1.7 10.1 10.1 100 0.0 Sep 	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works	kaf kaf kaf % kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0 2.0 0.0 Nov	1.0 0.4 1.4 1.0 0.0 Dec  1.5 57.2 4.8 Dec  1.5 0.0 0.0 0.0	1.2 0.4 1.6 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.7 0.0 1.2 5.0 5.0 40 1.2	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun	3.6 2.3 13.6 100 0.0 Jul  1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2 12.0 46 Jul	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 100  Aug	2.7 1.7 10.1 10.1 100 0.0 Sep  1.5 55.3 9.9 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep	24.7 13.6 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works	kaff kaff % kaff % kaff kaff kaff kaff k	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 	1.0 0.4 1.4 1.0 0.0 Dec 	1.2 0.4 1.66 1.00 0.0 Jan 57.2 13.8 Jan 0.0 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0	1.3 0.4 1.7 1.7 100 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.1 0.0 Mar	1.6 0.5 5.4 100 0.0 Apr  1.5 27.7 17.5 Apr  6.9 0.7 0.0 0.2 5.0 5.0	2.3 2.0 6.4 100 0.0  May 1.5 57.2 20.5  May 29.2 10.7 0.0 1.2 17.3 12.2 71	2.8 2.4 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun	3.6 2.3 13.6 100 0.0 Jul 1.5 57.2 27.5 Jul 37.7 9.7 0.0 1.8 26.2 12.0 46 Jul	3.4 2.1 16.1 100 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 100  Aug	2.7 1.7 10.1 10.1 100 0.0 Sep 	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1
Metered delivery Windy Gap demand Total demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Dille Tunnel  Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works  Rels from Flatiron Rels to 550 Canal	kaf kaf kaf % kaf 2008 	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0 2.0 0.0  Nov 3.9 3.6	1.0 0.4 1.4 1.4 100 0.0 Dec  1.5 57.2 4.8 Dec  1.5 0.0 0.0 0.0 0.0 0.0	1.2 0.4 1.66 1.00 0.0 Jan 57.2 13.8 Jan 0.0 0.0 0.0 1.4 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.7 0.0 1.2 5.0 100 4pr	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8	3.6 2.3 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 100  Aug 14.1 2.5	2.7 1.7 10.1 10.1 100 0.0 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep  7.9 2.5	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works  Rels from Flatiron Rels to 550 Canal Big T irrigation	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0	1.0 0.4 1.4 1.4 100 0.0 Dec 	1.2 0.4 1.66 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4	1.6 0.5 5.4 100 0.0 Apr  1.5 27.7 17.5 Apr  6.9 0.0 1.2 5.0 5.0 100 Apr	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8	3.6 2.3 13.6 100 0.0 Jul 1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2 12.0 46 Jul  1.8	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.0  Aug 14.1 2.5	2.7 1.7 10.1 10.1 1000 0.0 Sep 	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1 Total 194.7 111.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery % required delivery Shortage  Hansen Canal 930 2 Minimum flow Maximum flow Actual flow  Dille Tunnel 2 Minimum flow Actual flow  Dille Tunnel 4 Minimum flow Actual flow  Dille Tunnel 5 Minimum flow Actual flow  Dille Tunnel 6 Minimum flow Actual flow  Dille Tunnel 7 Minimum flow Actual flow  Dille Tunnel 7 Minimum flow Actual flow	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6	1.0 0.4 1.4 1.0 0.0 Dec 	1.2 0.4 1.66 1.00 0.0  Jan 6.1 57.22 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 6.9 0.7 0.0 1.2 5.0 5.0 100 17.5 16.2 0.6 5.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8	3.6 2.3 13.6 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 100  Aug 14.1 2.5	2.7 1.7 10.1 100.1 100 0.0 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep  9.9 2.5	24.7 13.6 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works  Rels from Flatiron Rels to 550 Canal Big T irrigation	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0	1.0 0.4 1.4 1.4 100 0.0 Dec 	1.2 0.4 1.66 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4	1.6 0.5 5.4 100 0.0 Apr  1.5 27.7 17.5 Apr  6.9 0.0 1.2 5.0 5.0 100 Apr	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8	3.6 2.3 13.6 100 0.0 Jul 1.5 57.2 27.5 Jul  37.7 9.7 0.0 1.8 26.2 12.0 46 Jul  1.8	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.0  Aug 14.1 2.5	2.7 1.7 10.1 10.1 1000 0.0 Sep 	24.7 13.6 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1 Total 194.7 111.8
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930  Minimum flow Maximum flow Actual flow  Dille Tunnel  Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works  Rels from Flatiron Rels to 550 Canal Big T irrigation Dille Tunnel Tot rels to river Irrigation demand	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 1.5 55.3 3.9 Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.3	1.0 0.4 1.4 1.4 1.00 0.0 Dec 	1.2 0.4 1.66 1.00 0.0 Jan 	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 6.9 0.7 0.0 1.2 5.0 5.0 100 Apr 17.5 16.2 0.6 5.0 6.3	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8 1.6 0.0 26.7	3.6 2.3 13.6 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0 24.7 2.6	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.0  Aug 14.1 2.5  4.9 10.5 22.1	2.7 1.7 10.1 100.1 1000 0.0 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep  9.9 2.5 5.1 3.6 11.0	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1 Total 194.7 111.8 27.4 46.1 129.0 26.3
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow  Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0 0.0  Nov 3.9 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 0.4 1.4 1.0 0.0 Dec  1.5 57.2 4.8 Dec  1.5 0.0 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.6 1.00 0.0  Jan 6.1 57.2 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8 0.0 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Max 1.8 0.0 0.0 0.0 1.8 0.0  Mar 20.4 20.4 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 0.0 1.2 5.0 5.0 100 Apr 17.5 16.2 0.6 5.0 0.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8 1.6 0.0 26.7 1.6 0.0	3.6 2.3 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0 24.7 2.6 0.0	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 100  Aug 14.1  4.9 10.5 22.1	2.7 1.7 10.1 10.1 100 0.0 Sep  7.6 2.3 0.0 1.7 3.6 3.6 100 Sep  9.9 2.5	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1 Total 27.4 46.1 129.0 26.3 0.0
Metered delivery Windy Gap demand Total demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 0.4 1.4 1.0 0.0  Dec 1.5 57.2 4.8  Dec 1.5 0.0 0.0 0.0 1.5 0.0  Dec 4.8 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.6 1.00 0.0  Jan 6.1 57.2 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0   Mar 20.4 20.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 6.9 0.7 0.0 1.2 5.0 100 Apr 17.5 16.2 0.6 5.0 6.3 0.6 0.0 0.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7 1.8 0.0 0.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8 1.6 0.0 26.7	3.6 2.3 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0 24.7	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.5 4.9 10.5 22.1  4.9 10.5 22.1  4.9 10.5 20.1 4.1	2.7 1.7 10.1 10.1 100 0.0 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep  7.5 55.3 9.9	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8 27.4 46.1 129.0 26.3 0.0 1.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 2	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0 Nov 1.5 55.3 3.9 Nov 2.3 0.3 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.4 1.4 1.0 0.0  Dec 1.5 57.2 4.8  Dec 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.66 1.00 0.0  Jan 6.1 57.2 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 0.0 1.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.6 0.5 5.4 100 0.0  Apr 1.5 27.7 17.5  Apr 6.9 0.7 0.0 1.2 5.0 100  Apr 17.5 6.3 0.6 0.0 0.0 0.0 0.6	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7 1.8 0.0 0.0 0.0 0.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 1.6 0.0 26.7 1.6 0.0 0.0 1.6	3.6 2.3 13.6 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0 24.7 2.6 0.0 0.4 3.0	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.5 2.2 14.1  4.1 2.5  4.9 10.5 22.1  4.5 0.0 0.4 4.9	2.7 1.7 10.1 10.1 1000 0.0 Sep 	24.7 13.6 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8 27.4 46.1 129.0 26.3 0.0 1.1 27.4
Metered delivery Windy Gap demand Total demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 0.0 2.0 0.0  Nov 3.9 3.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.0 0.4 1.4 1.0 0.0  Dec 1.5 57.2 4.8  Dec 1.5 0.0 0.0 0.0 1.5 0.0  Dec 4.8 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.6 1.00 0.0  Jan 6.1 57.2 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0 Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0   Mar 20.4 20.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 6.9 0.7 0.0 1.2 5.0 100 Apr 17.5 16.2 0.6 5.0 6.3 0.6 0.0 0.0	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7 1.8 0.0 0.0	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8 1.6 0.0 26.7	3.6 2.3 13.6 100 0.0  Jul 1.5 57.2 27.5  Jul 37.7 9.7 0.0 1.8 26.2 12.0 46  Jul 27.5 14.8 3.0 12.0 24.7	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 10.5 10.5 4.9 10.5 22.1  4.9 10.5 22.1  4.9 10.5 20.1 4.1	2.7 1.7 10.1 10.1 100 0.0 Sep  7.6 2.3 0.0 1.7 3.6 100 Sep  9.9 2.5 5.1 3.6 11.0	24.7 13.6 78.8 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8 27.4 46.1 129.0 26.3 0.0 1.1
Metered delivery Windy Gap demand Total demand Total delivery % required delivery Shortage  Hansen Canal 930 Minimum flow Maximum flow Actual flow  Dille Tunnel Big T @ Canyon Mouth Less Estes Skim Big T irr (Estes) Handy Ditch release Water available Water diverted % diverted  Trifurcation Works Rels from Flatiron Rels to 550 Canal  Big T irrigation Dille Tunnel Tot rels to river  Irrigation demand Big T irr (Estes) Windy Gap demand Total requirement Total delivery	kafi kafi kafi kafi kafi kafi kafi kafi	2.6 0.6 10.7 10.7 100 0.0 Oct 1.5 57.2 21.7 Oct 4.0 0.0 0.0 1.2 2.8 2.8 100 Oct 21.7 11.3 10.4 2.8 13.2 10.4 0.0 0.0 0.0 1.4 10.4	1.1 0.4 1.5 1.00 0.0  Nov 1.5 55.3 3.9  Nov 2.3 0.3 0.0 0.0 2.0 0.0   Nov 3.9 3.6 0.0 0.0 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.0 0.4 1.4 1.0 0.0  Dec 1.5 57.2 4.8  Dec 1.5 0.0 0.0 0.0 1.5 0.0  Dec 4.8 4.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.2 0.4 1.66 1.00 0.0  Jan 6.1 57.22 13.8  Jan 1.4 0.0 0.0 0.0 1.4 0.0  Jan 13.8 13.8  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.1 0.4 1.5 1.00 0.0 Feb 5.6 51.6 10.1 Feb 1.3 0.0 0.0 0.0 1.3 0.0  Feb 10.1 10.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1.3 0.4 1.7 1.00 0.0  Mar 6.1 57.2 20.4  Mar 1.8 0.0 0.0 0.0 1.8 0.0   Mar 20.4 20.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.6 0.5 5.4 100 0.0 Apr 1.5 27.7 17.5 Apr 6.9 0.7 0.0 1.2 5.0 5.0 100 Apr 17.5 16.2 0.6 5.0 6.3 0.6 0.0 0.0 0.6 0.6	2.3 2.0 6.4 100 0.0 May 1.5 57.2 20.5 May 29.2 10.7 0.0 1.2 17.3 12.2 71 May 20.5 8.0 1.8 12.2 24.7 1.8 0.0 0.0 1.8 1.8 1.8	2.8 2.4 8.8 8.8 100 0.0  Jun 1.5 55.3 30.5  Jun 61.5 25.1 0.0 1.2 35.2 0.0  Jun 30.5 3.8 1.6 0.0 26.7 1.6 0.0 0.0 1.6 1.6	3.6 2.3 13.6 100 0.0 Jul 1.5 57.2 27.5 Jul 37.7 9.7 0.0 1.8 26.2 12.0 46 Jul 27.5 14.8 3.0 12.0 24.7 2.6 0.0 0.4 3.0 3.0	3.4 2.1 16.1 1000 0.0  Aug 1.5 57.2 14.1  Aug 20.1 6.7 0.0 2.9 10.5 1000  Aug 14.1 2.5  4.9 10.5 22.1  4.5 0.0 0.4 4.9 4.9	2.7 1.7 10.1 10.1 1000 0.0 Sep 	24.7 13.6 78.8 0.0 Total 31.3 645.6 194.7 Total 175.3 55.5 0.0 11.2 108.6 46.1  Total 194.7 111.8 27.4 46.1 129.0 26.3 0.0 1.1 27.4

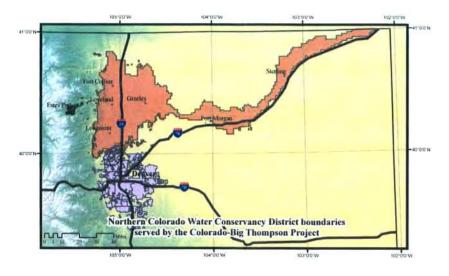
Hansen Canal 550	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow from Flatiron		11.3	3.6	4.8	13.8	10.1	20.4	16.2	8.0	3.8	14.8	2.5	2.5	111.8
Maximum flow	kaf	16.0	30.9	32.0	32.0	28.9	32.0	16.4	32.0	30.9	32.0	32.0	30.9	346.0
Seepage loss	kaf	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.4
Irrigation demand	kaf	0.7	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.8	0.8	0.8	5.4
Irrigation delivery	kaf	0.7	0.2	0.2	0.2	0.2	0.3	0.3	0.5	0.4	0.8	0.8	0.8	5.4
Minimum flow	kaf	1.5 10.4	1.5 3.2	1.5 4.4	3.1 13.4	2.8 9.7	1.5 19.9	1.5	1.5 7.3	1.5 3.2	1.5 13.8	1.5	1.5 1.5	20.9 104.0
Rels to Horsetooth	kaf	10.4	3.2	4.4	13.4	9.1	19.9	15.7	7.3	3.2	13.0	1.5	1.5	104.0
Horsetooth Reservoir		In	nitial Con	nt 8	0.0 kaf	Ma	ximum Co	ont 15	6.7 kaf	Mi	nimum Co	ont	5.0 kaf	
			Ele		.71 ft				.98 ft	_			.06 ft	
	2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow	kaf	10.4	3.2	4.4	13.4	9.7	19.9	15.7	7.3	3.2	13.8	1.5	1.5	104.0
Total irr delivery	kaf	18.5	1.6	1.6	1.9	1.8	1.9	2.5	6.4	7.2	17.9	21.6	13.2	96.1
Evaporation loss Seepage loss	kaf kaf	0.3	0.1 0.1	0.0 0.1	0.0 0.2	0.0 0.1	0.2 0.1	0.4 0.2	0.7 0.2	0.8	0.7 0.2	0.5 0.1	0.4 0.1	4.1 1.7
End-Month Targets	kaf	71.5	72.9	75.6	87.0	94.7	112.4	125.0	125.0	120.0	115.0	87.0	79.0	1.7
End-Month Content	kaf	71.5	72.9	75.6	86.9	94.7	112.4	125.0	125.0	120.0	115.0	94.3	82.1	
End-Month Elevation	ft	5379.64	5380.67	5382.61	5390.40	5395.48	5406.29	5413.47	5413.47	5410.67	5407.81	5395.23	5387.16	
T	16	15 6	0.0	0.0	0.0	0.0	0.0	0 1	2.7	2.0	10.7	15.0	0 1	EE 6
Irrigation demand Metered delivery	kaf kaf	15.6 2.5	0.0 1.2	0.0 1.2	0.0 1.5	0.0 1.4	0.0 1.5	0.1 2.0	2.7 3.3	3.2	10.7 5.7	15.2 4.9	8.1 3.7	55.6 32.5
Windy Gap demand	kaf	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	1.5	1.5	1.4	8.0
Total demand	kaf	18.5	1.6	1.6	1.9	1.8	1.9	2.5	6.4	7.2	17.9	21.6	13.2	96.1
Total irr delivery	kaf	18.5	1.6	1.6	1.9	1.8	1.9	2.5	6.4	7.2	17.9	21.6	13.2	96.1
% required delivery	8	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	39.3	2.5	2.4	2.9	2.7	3.1	7.9	12.7	15.2	31.1	39.4	25.8	185.0
Windy Gap Ownership 2	8002	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	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	1.0	0.8	0.8	0.8	0.8	0.8	0.9	2.4	2.8	4.2	4.0	3.4	22.7
Spill End-month Ownership	kaf kaf	0.0 58.5	0.0 57.7	0.0 56.9	0.0 56.1	0.0 55.3	0.0 54.5	0.0 53.6	0.0 51.2	0.0 48.4	0.0 44.2	0.0 40.2	0.0 36.8	0.0
PUMPING AND GENERATIO														
Green Mtn Gen 2				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Green Mtn Gen 2	 2008 	0ct	Nov											
Green Mtn Gen 2			-	Dec  9.300 2.105	Jan  9.300 1.915	Feb  8.272 1.828	Mar  8.969 1.676	Apr  17.223 1.556	May  18.600 1.692	Jun  18.000 18.000	Jul  18.600 18.600	Aug  18.600 10.781	Sep  18.000 9.282	Total  181.464 78.846
Green Mtn Gen 2 Max Generation Generation % Max Generation	2008  gwh	Oct  18.600 8.804 47	Nov  18.000 2.607 14	9.300 2.105 23	9.300 1.915 21	8.272 1.828 22	8.969 1.676 19	17.223 1.556 9	18.600 1.692 9	18.000 18.000 100	18.600 18.600 100	18.600 10.781 58	18.000 9.282 52	181.464
Green Mtn Gen 2 Max Generation Generation	2008  gwh gwh	Oct  18.600 8.804	Nov  18.000 2.607	9.300 2.105	9.300 1.915	8.272 1.828	8.969 1.676	17.223 1.556	18.600 1.692	18.000 18.000	18.600 18.600	18.600 10.781	18.000 9.282	181.464
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af	2008  gwh gwh	Oct  18.600 8.804 47	Nov  18.000 2.607 14	9.300 2.105 23	9.300 1.915 21	8.272 1.828 22	8.969 1.676 19	17.223 1.556 9	18.600 1.692 9	18.000 18.000 100	18.600 18.600 100	18.600 10.781 58	18.000 9.282 52	181.464
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af Willow Crk Pumping 2	2008  gwh gwh %	Oct  18.600 8.804 47 182	Nov  18.000 2.607 14 168	9.300 2.105 23 166	9.300 1.915 21 164	8.272 1.828 22 162	8.969 1.676 19 160	17.223 1.556 9 159	18.600 1.692 9 168	18.000 18.000 100 194	18.600 18.600 100 209	18.600 10.781 58 210	18.000 9.282 52 202	181.464 78.846
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af Willow Crk Pumping 2  Maximum pumping Actual pumping	2008  gwh gwh % 2008  kaf kaf	Oct 18.600 8.804 47 182 Oct 27.7 0.0	Nov  18.000 2.607 14 168 Nov  26.8 0.0	9.300 2.105 23 166 Dec	9.300 1.915 21 164 Jan  0.0 0.0	8.272 1.828 22 162 Feb	8.969 1.676 19 160 Mar 27.7 3.0	17.223 1.556 9 159 Apr  26.8 3.3	18.600 1.692 9 168 May	18.000 18.000 100 194 Jun  26.8 26.8	18.600 18.600 100 209 Jul  27.7 6.0	18.600 10.781 58 210 Aug  27.7 1.7	18.000 9.282 52 202 Sep  26.8 1.7	Total 245.7 69.3
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping 2  Maximum pumping Actual pumping Pump energy	2008 gwh gwh % 2008  kaf kaf	Oct 18.600 8.804 47 182 Oct 27.7	Nov 	9.300 2.105 23 166 Dec	9.300 1.915 21 164 Jan	8.272 1.828 22 162 Feb	8.969 1.676 19 160 Mar 27.7 3.0 0.639	17.223 1.556 9 159 Apr 26.8 3.3 0.703	18.600 1.692 9 168 May 27.7 26.8 5.708	18.000 18.000 100 194 Jun 26.8 26.8 5.708	18.600 18.600 100 209 Jul 27.7 6.0 1.278	18.600 10.781 58 210 Aug 27.7 1.7 0.362	18.000 9.282 52 202 Sep 26.8 1.7 0.362	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping  Maximum pumping Actual pumping Pump energy % max pumping	2008  gwh gwh % 2008  kaf kaf	Oct 18.600 8.804 47 182 Oct 27.7 0.0	Nov  18.000 2.607 14 168 Nov  26.8 0.0	9.300 2.105 23 166 Dec	9.300 1.915 21 164 Jan  0.0 0.0	8.272 1.828 22 162 Feb	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11	17.223 1.556 9 159 Apr 26.8 3.3 0.703	18.600 1.692 9 168 May 27.7 26.8 5.708	18.000 18.000 100 194 Jun  26.8 26.8 5.708	18.600 18.600 100 209 Jul 27.7 6.0 1.278 22	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6	18.000 9.282 52 202 Sep  26.8 1.7 0.362 6	Total 245.7 69.3
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af Willow Crk Pumping 2  Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af	2008  gwh gwh % 2008  kaf kaf gwh	Oct	Nov  18.000 2.607 14 168 Nov  26.8 0.0 0.000	9.300 2.105 23 166 Dec	9.300 1.915 21 164 Jan  0.0 0.0	8.272 1.828 22 162 Feb	8.969 1.676 19 160 Mar 27.7 3.0 0.639	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213	18.600 1.692 9 168 May  27.7 26.8 5.708 97 213	18.000 18.000 100 194 Jun  26.8 26.8 5.708 100 213	18.600 18.600 209 Jul  27.7 6.0 1.278 22 213	18.600 10.781 58 210 Aug  27.7 1.7 0.362 6 213	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213	181.464 78.846 Total 
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping  Maximum pumping Actual pumping Pump energy % max pumping	2008  gwh gwh % 2008  kaf kaf gwh	Oct 18.600 8.804 47 182 Oct 27.7 0.0	Nov  18.000 2.607 14 168 Nov  26.8 0.0	9.300 2.105 23 166 Dec 0.0 0.0	9.300 1.915 21 164 Jan  0.0 0.0	8.272 1.828 22 162 Feb	8.969 1.676 19 160 Mar  27.7 3.0 0.639 11 213	17.223 1.556 9 159 Apr 26.8 3.3 0.703	18.600 1.692 9 168 May 27.7 26.8 5.708	18.000 18.000 100 194 Jun  26.8 26.8 5.708	18.600 18.600 100 209 Jul 27.7 6.0 1.278 22	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6	18.000 9.282 52 202 Sep  26.8 1.7 0.362 6	Total 245.7 69.3
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af Willow Crk Pumping Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af Lake Granby Pumping Maximum pumping	2008 gwh gwh % 2008 kaf kaf gwh %	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000 Oct	Nov 	9.300 2.105 23 166 Dec 0.0 0.00 0.000	9.300 1.915 21 164  Jan 0.0 0.00 0.000  Jan 36.9	8.272 1.828 22 162 Feb 	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 Mar	17.223 1.556 9 159 Apr 	18.600 1.692 9 168 May 	18.000 18.000 100 194  Jun  26.8 26.8 5.708 100 213  Jun  35.7	18.600 100 209 Jul 27.7 6.0 1.278 22 213 Jul	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug	18.000 9.282 52 202 Sep	181.464 78.846 Total 
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping 2  Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping 2  Maximum pumping Actual pumping Actual pumping	2008 gwh gwh % 2008 kaf kaf gwh %	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4	Nov 	9.300 2.105 23 166 Dec 0.0 0.00 0.000	9.300 1.915 21 164 Jan 0.0 0.00 0.000	8.272 1.828 22 162 Feb 0.0 0.000 Feb 33.3 25.6	8.969 1.676 19 160 Mar  27.7 3.0 0.639 11 213 Mar  36.9 27.9	17.223 1.556 9 159 Apr 	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0	18.600 100 209 Jul	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0	18.000 9.282 52 202 Sep26.8 1.7 0.362 6 213 Sep35.7	181.464 78.846 Total 
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Maximum pumping Actual pumping Pump energy	gwh gwh % 2008kaf kaf gwh	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000 Oct 36.9 29.4 4.351	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700	9.300 2.105 23 166 Dec 0.0 0.00 0.000	9.300 1.915 21 164 Jan 0.0 0.00 0.000	8.272 1.828 22 162 Feb  0.0 0.00 0.000 Feb  33.3 25.6 3.994	8.9696 1.676 19 1600 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436	17.223 1.556 9 159 Apr  26.8 3.3 0.703 12 213 Apr  35.7 8.4 1.352	18.600 1.692 9 168 May 	18.000 18.000 100 194  Jun  26.8 26.8 5.708 100 213  Jun  35.7	18.600 100 209 Jul 27.7 6.0 1.278 22 213 Jul	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742	181.464 78.846 Total 
Green Mtn Gen 2  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping 2  Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping 2  Maximum pumping Actual pumping Actual pumping	2008 gwh gwh % 2008 kaf kaf gwh %	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4	Nov 	9.300 2.105 23 166 Dec 0.0 0.00 0.000	9.300 1.915 21 164 Jan 0.0 0.00 0.000	8.272 1.828 22 162 Feb 0.0 0.000 Feb 33.3 25.6	8.969 1.676 19 160 Mar  27.7 3.0 0.639 11 213 Mar  36.9 27.9	17.223 1.556 9 159 Apr 	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0	18.600 100 209 Jul	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0	18.000 9.282 52 202 Sep26.8 1.7 0.362 6 213 Sep35.7	181.464 78.846 Total 
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Actual pumping Average kwh/af  Lake Granby Pumping Average kwh/af  Actual pumping Actual pumping Pump energy % max pumping Average kwh/af	gwh gwh % 2008 	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4 4.351 80 148	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149	9.300 1.915 21 164 Jan 0.0 0.00 0.000 Jan 36.9 32.9 5.001 89 152	8.272 1.828 22 162 Feb 0.0 0.00 0.000  Feb 33.3 25.6 3.994 77 156	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436 76 159	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0 0.000	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000	18.600 100 209 Jul	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0 0.000	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742 15 140	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Average kwh/af  Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  2	gwh gwh % 2008kaf kaf gwh	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4 4.351 80	Nov 	9.300 2.105 23 166 Dec 0.0 0.00 0.000	9.300 1.915 21 164  Jan 0.0 0.00 0.000  Jan 36.9 32.9 5.001 89 152 Jan	8.272 1.828 22 162 Feb 	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 Mar  36.9 27.9 4.436	17.223 1.556 9 159 Apr  26.8 3.3 0.703 12 213 Apr  35.7 8.4 1.352 24	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0	18.600 100 209 Jul 27.7 6.0 1.278 22 213 Jul 36.9 0.0 0.000	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 0.0 0.000	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.7422 15	181.464 78.846 Total 
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Actual pumping Average kwh/af  Maximum pumping Actual pumping Act	2008 gwh gwh % 2008 kaf kaf gwh % 2008 kaf kaf gwh % 2008 kaf kaf kaf gwh kaf kaf	Oct 18.600 8.804 47 182 Oct 27.7 0.00 0.000  Oct 36.9 29.4 4.351 80 148 Oct 30.3	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149  Dec 23.6	9.300 1.915 21 164 Jan 0.0 0.00 0.000 Jan 36.9 32.9 5.001 89 152 Jan 33.8	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4	8.969 1.676 19 160 Mar 	17.223 1.556 9 159 Apr 	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0 0.000	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000	18.600 100 209 Jul 27.7 6.00 1.278 22 213 Jul 36.9 0.00 0.000	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0 0.000	18.000 9.282 52 202 Sep26.8 1.7 0.362 6 213 Sep35.7 5.3 0.742 15 140 Sep7.8	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Actual pumping Actual pumping Actual pumping Actual pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation	2008 gwh % 2008 kaf gwh % 2008 kaf gwh %	Oct	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8 0.000	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000	9.300 1.915 21 164 Jan 0.0 0.000 Jan 36.9 32.9 5.001 89 152 Jan 	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400	8.969 1.676 19 160 Mar 27.7 36.9 27.9 4.436 76 159 Mar 28.6 6.060	17.223 1.556 9 159 Apr  26.8 3.3 0.703 12 213 Apr  35.7 8.4 1.352 24 161 Apr  16.9 5.840	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.00 0.000	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000	18.600 18.600 209 Jul  27.7 6.0 1.278 22 213 Jul  36.9 0.00 0.000	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 36.9 0.000  Aug 7.6 6.060	18.000 9.282 52 202 Sep 26.8 213 Sep 35.7 5.3 0.742 15 140 Sep 7.8 5.840	Total 245.7 69.3 14.760  Total 434.4 158.6 24.212  Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Actual pumping Fump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation Generation	2008 gwh gwh % 2008 kaf kaf gwh % 2008 kaf gwh %	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4 4.351 80 148 Oct 30.3 5.380 5.360	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149  Dec 23.6	9.300 1.915 21 164  Jan 0.0 0.00 0.000  Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060	8.272 1.828 22 162 Feb 0.0 0.000  Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 36.9 27.9 4.436 76 159 Mar 28.6 6.060 5.120	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161 Apr 	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.00 0.000	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000	Jul	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 36.9 0.0 0.000  Aug 7.6 6.060 1.220	Sep	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Actual pumping Actual pumping Actual pumping Actual pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation	2008 gwh % 2008 kaf gwh % 2008 kaf gwh %	Oct	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8 0.000	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000	9.300 1.915 21 164 Jan 0.0 0.000 Jan 36.9 32.9 5.001 89 152 Jan 	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400	8.969 1.676 19 160 Mar 27.7 36.9 27.9 4.436 76 159 Mar 28.6 6.060	17.223 1.556 9 159 Apr  26.8 3.3 0.703 12 213 Apr  35.7 8.4 1.352 24 161 Apr  16.9 5.840	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.00 0.000	18.000 18.000 100 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000	18.600 18.600 209 Jul  27.7 6.0 1.278 22 213 Jul  36.9 0.00 0.000	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 36.9 0.000  Aug 7.6 6.060	18.000 9.282 52 202 Sep 26.8 213 Sep 35.7 5.3 0.742 15 140 Sep 7.8 5.840	Total 245.7 69.3 14.760  Total 245.2 Total 434.4 158.6 24.212
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Average kwh/af  Maximum pumping Actual pumping Pump energy % max pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation Generation % Max Generation Ave kwh/af	2008 gwh % 2008 kaf kaf gwh % 2008 kaf gwh gwh %	Oct	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8 0.000 0.000	9.300 2.105 23 166  Dec 0.0 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000 0.000	9.300 1.915 21 164  Jan 0.0 0.000  Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060 100 179	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680 87 177	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436 76 159 Mar 28.6 6.060 5.120 84 179	17.223 1.556 9 159 Apr  26.8 3.3 0.703 12 213 Apr  35.7 8.4 1.352 24 161 Apr  16.9 5.840 2.980 51 176	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0 0.000  May 18.2 6.060 3.240 53 178	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000  Jun 7.6 5.840 1.220 21 161	18.600 18.600 209 Jul 27.7 6.0 1.278 22 213 Jul 36.9 0.00 0.000  Jul 6.060 4.320 71 179	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 36.9 0.00 0.000  Aug 7.6 6.060 1.220 20 161	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742 15 140 Sep 7.8 5.840 1.260 22 162	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual pumping Pump energy % max pumping Average kwh/af  Maximum pumping Actual pumping Pump energy % max pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation Generation % Max Generation Ave kwh/af	2008 gwh gwh % 2008 kaf kaf gwh % 2008 kaf gwh %	Oct 18.600 8.804 47 182 Oct 27.7 0.0 0.000  Oct 36.9 29.4 4.351 80 148 Oct 30.3 5.380 5.360 100 177 Oct	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8 0.000 0.000	9.300 2.105 23 166  Dec 0.0 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000 0.000	9.300 1.915 21 164  Jan 0.0 0.00 0.000  Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060 1000 179 Jan	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680 87 177	8.969 1.676 19 160  Mar 27.7 3.0 0.639 11 213  Mar 36.9 27.9 4.436 76 159  Mar 28.6 6.060 5.120 84 179	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161 Apr 16.9 5.840 2.980 2.980 4.76	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0 0.000  May 18.2 6.060 3.240 53 178 May	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000  Jun 7.6 5.840 1.220 21 161 Jun	18.600 100 209 Jul 27.7 6.0 1.278 22 213 Jul 36.9 0.0 0.000  Jul 24.1 6.060 4.320 71 179 Jul	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0 0.000  Aug 7.6 6.060 1.220 20 161 Aug	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742 140 Sep 7.8 5.840 1.260 22	Total 245.7 69.3 14.760  Total 434.4 158.6 24.212  Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Pump energy % max pumping Actual pumping Pump energy % max pumping Actual pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation % Max Generation Ave kwh/af  Lake Estes Gen  Adams Tunnel Flow Adams Tunnel Flow	2008 gwh % 2008 kaf gwh % 2008 kaf gwh % 2008 kaf gwh % 2008 kaf gwh %	Oct	Nov	9.300 2.105 23 166  Dec 0.0 0.00 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000 0.000	9.300 1.915 21 164  Jan 0.0 0.00  Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060 100 179 Jan 33.8	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680 87 177 Feb	8.9696 1.676 19 1600 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436 76 159 Mar 28.6 6.060 5.120 84 179 Mar 28.6	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161 Apr 16.9 5.840 2.980 51 176 Apr	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.00 0.000  May 18.2 6.060 3.240 53 178 May 18.2	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000  Jun 7.6 5.840 1.220 21 161 Jun 7.6	18.600 100 209 Jul 27.7 6.06 1.278 22 213 Jul 36.9 0.0 0.000  Jul 24.1 6.060 4.320 71 179 Jul 24.1	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0 0.000  Aug 7.6 6.060 1.220 20 161 Aug 7.6	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742 15 140 Sep 7.8 5.840 1.260 22 162 Sep 7.8	Total 245.7 69.3 14.760  Total 434.4 158.6 24.212  Total 58.600 35.460
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Maximum pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Actual Pumping % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max Generation % Max Generation Ave kwh/af  Lake Estes Gen  Adams Tunnel Flow Max generation	2008	Oct	Nov 18.000 2.607 14 168 Nov 26.8 0.0 0.000  Nov 35.7 4.7 0.700 13 149 Nov 3.8 0.000 0.000	9.300 2.105 23 166  Dec 0.0 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000 0.000	9.300 1.915 21 164  Jan 0.0 0.00 0.000   Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060 6.060 179 Jan 33.8 11.940	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680 87 177 Feb 26.4 10.060	8.969 1.676 19 160 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436 76 159 Mar 28.6 6.060 5.120 84 179 Mar 28.6 179 Mar 28.6 10.450	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161 Apr 16.9 9.660	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.0 0.000  May 18.2 6.060 3.240 53 178 May 18.2 9.980	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000  Jun 7.6 5.840 1.220 21 161  Jun 7.6 10.060	Jul	18.600 10.781 58 210 Aug 27.7 1.7 0.362 6 213 Aug 0.0 0.000  Aug 7.6 6.060 1.220 20 161 Aug 7.6 14.920	Sep	Total
Green Mtn Gen  Max Generation Generation % Max Generation Ave kwh/af  Willow Crk Pumping Actual pumping Pump energy % max pumping Average kwh/af  Lake Granby Pumping Pump energy % max pumping Actual pumping Pump energy % max pumping Actual pumping Actual pumping Pump energy % max pumping Average kwh/af  Marys Lake Gen  Adams Tunnel Flow Max generation % Max Generation Ave kwh/af  Lake Estes Gen  Adams Tunnel Flow Adams Tunnel Flow	2008	Oct	Nov	9.300 2.105 23 166  Dec 0.0 0.000  Dec 36.9 24.4 3.636 66 149 Dec 23.6 0.000 0.000	9.300 1.915 21 164  Jan 0.0 0.00  Jan 36.9 32.9 5.001 89 152  Jan 33.8 6.060 6.060 100 179 Jan 33.8	8.272 1.828 22 162 Feb 33.3 25.6 3.994 77 156 Feb 26.4 5.400 4.680 87 177 Feb	8.9696 1.676 19 1600 Mar 27.7 3.0 0.639 11 213 Mar 36.9 27.9 4.436 76 159 Mar 28.6 6.060 5.120 84 179 Mar 28.6	17.223 1.556 9 159 Apr 26.8 3.3 0.703 12 213 Apr 35.7 8.4 1.352 24 161 Apr 16.9 5.840 2.980 51 176 Apr	18.600 1.692 9 168 May 27.7 26.8 5.708 97 213 May 36.9 0.00 0.000  May 18.2 6.060 3.240 53 178 May 18.2	18.000 18.000 194  Jun 26.8 26.8 5.708 100 213  Jun 35.7 0.0 0.000  Jun 7.6 5.840 1.220 21 161 Jun 7.6	18.600 100 209 Jul 27.7 6.06 1.278 22 213 Jul 36.9 0.0 0.000  Jul 24.1 6.060 4.320 71 179 Jul 24.1	18.600 10.781 58 210 Aug 27.7 0.362 6 213 Aug 36.9 0.0 0.000  Aug 7.6 6.060 1.220 20 161 Aug 7.6	18.000 9.282 52 202 Sep 26.8 1.7 0.362 6 213 Sep 35.7 5.3 0.742 15 140 Sep 7.8 5.840 1.260 22 162 Sep 7.8	Total 245.7 69.3 14.760  Total 434.4 158.6 24.212  Total 58.600 35.460

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			_	_			_		_		_	_	
Pole Hill Gen 200	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Olympus Tunnel flow ka		4.1	23.6	33.8	26.4	28.6	17.6	28.9	32.7	33.8	14.3	10.1	284.2
Max generation gw		0.000	5.750	25.260	22.800	25.260	24.460	25.260	24.460	25.260	25.260	24.460	250.950
Generation gw		0.000	4.640	10.200	9.240 41	10.200	9.880	10.200	9.880	10.200	10.200	6.730	101.570
<pre>% Max Generation Ave kwh/af</pre>	45 337		81 546	40 302	350	40 357	40 561	40 353	40 302	40 302	40 713	28 666	
Flatiron 1&2 Gen 200	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Inflow to Flatiron ka	30.1	3.9	23.4	33.7	26.3	28.5	17.5	28.8	32.6	33.7	14.1	9.9	282.5
Max generation gw		0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	11.690	123.830
Generation gw		0.000	5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050	8.210	120.350
% Max Generation	100		100	100	100	100	100	100	100	100	100	70	
Ave kwh/af	893		821	893	892	893	892	893	892	893	893	829	
Flatiron 3 Pump/Gen 200	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Maximum pumping ka	9.3	0.0	20.2	20.1	16.3	16.7	0.0	8.5	16.8	18.3	19.9	21.0	167.1
Pump from Flatiron ka	8.4	0.0	18.6	19.9	16.2	8.1	0.0	8.3	2.1	6.2	0.0	0.0	87.8
Pump energy gw		0.000	5.320	6.308	5.686	3.038	0.000	3.063	0.760	2.139	0.000	0.000	28.649
	90		92	99	99	49		98	13	34			
Average kwh/af	278		286	317	351	375		369	362	345			
Release to Flatiron ka		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 gw		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 gw		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<pre>% max generation Average kwh/af</pre>	5												
Big Thompson Gen 200	0ct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Total release ka	13.2	0.3	0.0	0.0	0.0	0.0	6.3	24.7	26.7	24.7	22.1	11.0	129.0
Turbine release ka		0.0	0.0	0.0	0.0	0.0	6.3	24.7	23.9	24.7	22.1	11.0	125.9
Wasteway release ka		0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	3.1
Max generation gw		0.000	0.000	0.000	0.000	0.000	3.800	3.940	3.800	3.940	3.940	3.800	27.160
Generation gw	1.940 49	0.000	0.000	0.000	0.000	0.000	0.660 17	3.940 100	3.800 100	3.940 100	3.520 89	1.500 39	19.300
Ave kwh/af	147						105	160	159	160	159	136	
PROJECT GENERATION AND	PUMPING SU												
	PUMPING SU		Dec	Jan	Feb	Mar							Total
	PUMPING SU		Dec	Jan 	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Project Generation 200Base Generation:	PUMPING SU	Nov					Apr	May	Jun 	Jul	Aug	Sep	
Project Generation 200  Base Generation: Big Thompson gw	PUMPING SU	Nov 	0.000	0.000	0.000	0.000	Apr 	May  3.940	Jun  3.800	Jul  3.940	Aug  3.520	Sep 	19.300
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw	Oct 1.940 1 8.804	Nov  0.000 2.607	0.000 2.105	0.000 1.915	0.000 1.828	0.000 1.676	Apr  0.660 1.556	May  3.940 1.692	Jun  3.800 18.000	Jul  3.940 18.600	Aug  3.520 10.781	Sep  1.500 9.282	19.300 78.846
Project Generation 200  Base Generation: Big Thompson gw	Oct 1.940 a 8.804 a 0.000	Nov 	0.000	0.000	0.000	0.000	Apr 	May  3.940	Jun  3.800	Jul  3.940	Aug  3.520	Sep 	19.300
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw Flatiron 3 gw Total gw	B Oct 1.940 a 8.804 a 0.000 a 10.744	Nov  0.000 2.607 0.000	0.000 2.105 0.000	0.000 1.915 0.000	0.000 1.828 0.000	0.000 1.676 0.000	Apr  0.660 1.556 0.000	May  3.940 1.692 0.000	Jun  3.800 18.000 0.000	Jul  3.940 18.600 0.000	Aug  3.520 10.781 0.000	Sep  1.500 9.282 0.000	19.300 78.846 0.000
Project Generation 200	Oct 1.940 a 8.804 a 0.000 a 10.744 on:	Nov  0.000 2.607 0.000 2.607	0.000 2.105 0.000 2.105	0.000 1.915 0.000 1.915	0.000 1.828 0.000 1.828	0.000 1.676 0.000 1.676	Apr  0.660 1.556 0.000 2.216	May  3.940 1.692 0.000 5.632	Jun  3.800 18.000 0.000 21.800	Jul  3.940 18.600 0.000 22.540	Aug  3.520 10.781 0.000 14.301	Sep  1.500 9.282 0.000 10.782	19.300 78.846 0.000 98.146
Project Generation 200	OCT 1.940 a 8.804 a 0.000 a 10.744 con:	Nov  0.000 2.607 0.000 2.607	0.000 2.105 0.000 2.105	0.000 1.915 0.000 1.915	0.000 1.828 0.000 1.828	0.000 1.676 0.000 1.676	Apr  0.660 1.556 0.000 2.216	May 3.940 1.692 0.000 5.632	Jun  3.800 18.000 0.000 21.800	Jul  3.940 18.600 0.000	Aug  3.520 10.781 0.000 14.301	Sep  1.500 9.282 0.000 10.782	19.300 78.846 0.000
Project Generation 200	PUMPING SU 3 Oct 1.940 1.8804 1.0000 1.0744 2.0000 1.00000 1.0000 1.00000 1.00000 1.00000 1.00000 1.00000 1.0000	Nov  0.000 2.607 0.000 2.607	0.000 2.105 0.000 2.105	0.000 1.915 0.000 1.915	0.000 1.828 0.000 1.828	0.000 1.676 0.000 1.676	Apr  0.660 1.556 0.000 2.216	May  3.940 1.692 0.000 5.632	Jun  3.800 18.000 0.000 21.800	Jul  3.940 18.600 0.000 22.540 4.320	Aug  3.520 10.781 0.000 14.301	Sep  1.500 9.282 0.000 10.782	19.300 78.846 0.000 98.146
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw Flatiron 3 gw Total gw Load Following Generati Marys Lake gw Lake Estes gw	Oct 1.940 a 8.804 a 0.000 a 10.744 con:	Nov  0.000 2.607 0.000 2.607	0.000 2.105 0.000 2.105 0.000 10.400	0.000 1.915 0.000 1.915 6.060 11.940	0.000 1.828 0.000 1.828 4.680 10.060	0.000 1.676 0.000 1.676 5.120 10.450	Apr  0.660 1.556 0.000 2.216 2.980 7.760	May 3.940 1.692 0.000 5.632 3.240 8.260	Jun 3.800 18.000 0.000 21.800 1.220 3.200	Jul 3.940 18.600 0.000 22.540 4.320 10.640	Aug 3.520 10.781 0.000 14.301 1.220 3.200	Sep  1.500 9.282 0.000 10.782 1.260 3.300	19.300 78.846 0.000 98.146 35.460 94.180
Project Generation 200	Oct 1.940 8.804 0.000 10.744 con: 13.350 11.200 12.050	Nov  0.000 2.607 0.000 2.607	0.000 2.105 0.000 2.105 0.000 10.400 4.640	0.000 1.915 0.000 1.915 6.060 11.940 10.200	0.000 1.828 0.000 1.828 4.680 10.060 9.240	0.000 1.676 0.000 1.676 5.120 10.450 10.200	Apr  0.660 1.556 0.000 2.216 2.980 7.760 9.880	May  3.940 1.692 0.000 5.632 3.240 8.260 10.200	Jun  3.800 18.000 0.000 21.800 1.220 3.200 9.880	Jul  3.940 18.600 0.000 22.540 4.320 10.640 10.200	Aug  3.520 10.781 0.000 14.301 1.220 3.200 10.200	Sep  1.500 9.282 0.000 10.782 1.260 3.300 6.730	19.300 78.846 0.000 98.146 35.460 94.180 101.570
Project Generation 200	PUMPING SU	Nov  0.000 2.607 0.000 2.607 0.000 1.620 0.000 0.000	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050	Apr 0.660 1.556 0.000 2.216 2.980 7.760 9.880 11.690	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050	3.520 10.781 0.000 14.301 1.220 3.200 10.200 12.050	Sep  1.500 9.282 0.000 10.782 1.260 3.300 6.730 8.210	19.300 78.846 0.000 98.146 35.460 94.180 101.570 120.350
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw Flatiron 3 gw Total gw  Load Following Generati Marys Lake gw Lake Estes gw Pole Hill gw Flatiron 1,2 gw	Oct 1.940 a 8.804 a 0.000 a 10.744 con: a 5.360 a 10.200 a 12.050 a 40.960 a 51.704	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820	Apr 0.660 1.556 0.000 2.216 2.980 7.760 9.880 11.690 32.310	May  3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990	Jul  3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050 37.210	3.520 10.781 0.000 14.301 1.220 3.200 10.200 12.050 26.670	Sep  1.500 9.282 0.000 10.782 1.260 3.300 6.730 8.210 19.500	19.300 78.846 0.000 98.146 35.460 94.180 101.570 120.350 351.560
Project Generation 200	PUMPING SU	Nov  0.000 2.607 0.000 2.607 0.000 1.620 0.000 0.000 1.620	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820	Apr 0.660 1.556 0.000 2.216 2.980 7.760 9.880 11.690 32.310 34.526	3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990 47.790	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050 37.210 59.750	3.520 10.781 0.000 14.301 1.220 3.200 10.200 12.050 26.670 40.971	Sep  1.500 9.282 0.000 10.782 1.260 3.300 6.730 8.210 19.500 30.282	19.300 78.846 0.000 98.146 35.460 94.180 101.570 120.350 351.560
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 0.000 1.620 4.227 32.450	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550	0.000 1.915 0.000 1.915 6.060 11.940 10.200 40.250 42.165 64.610	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412	0.000 1.676 0.000 1.676 5.120 10.200 12.050 37.820 39.496 62.789	Apr  0.660 1.556 0.000 2.216 2.980 7.760 9.880 11.690 32.310 34.526 72.673	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 47.790 73.850	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050 37.210 59.750 80.830	3.520 10.781 0.000 14.301 1.220 3.200 10.200 12.050 26.670 40.971 80.830	Sep 	19.300 78.846 0.000 98.146 35.460 94.180 101.570 120.350 351.560 449.706 792.734
Project Generation 200	PUMPING SU 3 Oct 1.940 1.8804 1.0000 1.0744 201: 1.5.360 1.12.050 1	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 4.227 32.450 Nov	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 3.636 0.000	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb	0.000 1.676 0.000 1.676 5.120 10.450 12.050 37.820 39.496 62.789 Mar 4.436 0.639	Apr 0.660 1.556 0.000 2.216 2.980 7.760 9.880 11.690 32.310 34.526 72.673	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990  47.790 73.850 Jun 0.0000 5.708	Jul 3.940 18.600 0.000 22.540  4.320 10.640 10.205 37.210 59.750 80.830 Jul 0.0000 1.278	3.520 10.781 0.000 14.301 1.220 3.200 10.200 12.050 26.670 40.971 80.830	Sep 1.500 9.282 0.000 10.782 1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 4.227 32.450 Nov 0.700 0.000 0.000	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610 Jan 	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 3.994 0.000 5.686	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820 39.496 62.789 Mar 	2.980 7.760 9.880 11.690 32.310 34.526 72.673  Apr 1.352 0.703 0.000	3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.0000 5.708 3.063	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.800 11.690 25.990  47.790 73.850 Jun 0.000 5.708 0.760	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050 37.210 59.750 80.830 Jul 0.000 1.278 2.139	3.520 10.781 0.000 14.301  1.220 3.200 10.200 12.050 26.670 40.971 80.830  Aug 0.000 0.362 0.000	1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total 24.212 14.760 28.649
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 4.227 32.450 Nov	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 3.636 0.000	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610 Jan 5.001 0.000	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb	0.000 1.676 0.000 1.676 5.120 10.450 12.050 37.820 39.496 62.789 Mar 4.436 0.639	2.980 7.760 9.880 11.690 32.310 34.526 72.673 Apr 1.352 0.703	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.000 5.708	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990  47.790 73.850 Jun 0.0000 5.708	Jul 3.940 18.600 0.000 22.540  4.320 10.640 10.205 37.210 59.750 80.830 Jul 0.0000 1.278	3.520 10.781 0.000 14.301  1.220 3.200 10.200 12.050 26.670  40.971 80.830 Aug 0.000 0.362	Sep 1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500  30.282 78.240 Sep 0.742 0.362	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total  24.212 14.760
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 4.227 32.450 Nov 0.700 0.000 0.000	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610 Jan 	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 3.994 0.000 5.686	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820 39.496 62.789 Mar 	2.980 7.760 9.880 11.690 32.310 34.526 72.673  Apr 1.352 0.703 0.000	3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.0000 5.708 3.063	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.800 11.690 25.990  47.790 73.850 Jun 0.000 5.708 0.760	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.200 12.050 37.210 59.750 80.830 Jul 0.000 1.278 2.139	3.520 10.781 0.000 14.301  1.220 3.200 10.200 12.050 26.670 40.971 80.830  Aug 0.000 0.362 0.000	1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total 24.212 14.760 28.649
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw Flatiron 3 gw Total gw  Load Following Generati Marys Lake gw Lake Estes gw Pole Hill glatiron 1,2 gw Total gw Total gw Total generation gw Total max generation gw Project Pump Energy 200  Granby gw Willow Creek gw Flatiron 3 gw Total pump energy gw	PUMPING SU	0.000 2.607 0.000 1.620 0.000 1.620 0.000 1.620 0.000 0.000 0.000 0.000 0.000 0.000 0.000	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610 Jan	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820 39.496 62.789 Mar 	2.980 7.760 9.880 11.690 32.216 34.526 72.673 Apr 11.352 0.703 0.000 2.055	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.000 5.708 3.063 8.771	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990 47.790 73.850 Jun 0.000 5.708 0.760 6.468	Jul 3.940 18.600 0.000 22.540  4.320 10.640 10.200 37.210 59.750 80.830  Jul 0.000 1.278 2.139 3.417	3.520 10.781 0.0000 14.301  1.220 3.200 10.200 12.050 26.670  40.971 80.830 Aug 0.000 0.362 0.000 0.362	Sep 1.500 9.282 0.0000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000 1.104	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 0.000 0.000 0.000 0.700 0.700 3.527 Nov	0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 3.636 0.000 5.320 8.956 13.769 Dec 23.6	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610  Jan 5.001 0.000 6.308 11.309 30.856  Jan 33.8	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 3.994 0.000 5.686 9.680 27.008	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820 39.496 62.789 Mar 4.436 0.639 3.038 8.113 31.383 Mar 28.6	Apr 0.660 0.000 2.216 2.980 7.760 9.880 11.690 32.310 34.526 72.673 Apr 	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.000 5.708 3.063 8.771 30.611 May 18.2	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990  47.790 73.850  Jun 0.000 5.708 0.760 6.468  41.322 Jun 7.6	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.2050 37.210 59.750 80.830 Jul	3.520 10.781 0.000 14.301  1.220 3.200 10.2050 26.670  40.971 80.830  Aug 0.000 0.362 40.609  Aug 7.6	Sep 1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000 1.104 29.178 Sep 7.8	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total 24.212 14.760 28.649 67.621  382.085
Project Generation 200  Base Generation: Big Thompson gw Green Mtn gw Flatiron 3 gw Total gw  Load Following Generati Marys Lake gw Lake Estes gw Fole Hill gw Flatiron 1,2 gw Total generation gw  Total generation gw  Project Pump Energy 200  Granby gw Willow Creek gw Flatiron 3 gw Total pump energy gw  Total net generation gw  Release Flexibility 200	PUMPING SU	0.000 2.607 0.000 1.620 0.000 1.620 0.000 1.620 0.000 0.000 1.620 0.700 0.700 3.527	0.000 2.105 0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 3.636 0.000 5.320 8.956 13.769 Dec	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610 Jan 5.001 0.000 6.308 11.309 30.856 Jan	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 3.994 0.000 5.686 9.680 27.008	0.000 1.676 0.000 1.676 5.120 10.450 12.050 37.820 39.496 62.789 Mar 4.436 0.639 3.038 8.113 31.383 Mar	2.980 7.760 9.880 11.690 32.310 34.526 72.673 Apr 1.352 0.703 0.000 2.055 32.471 Apr	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May0 0.000 5.708 3.063 8.771 30.611 May	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990 47.790 73.850 Jun 0.000 5.708 0.760 6.468 41.322 Jun	Jul 3.940 18.600 0.000 22.540  4.320 10.640 10.205 37.210  59.750 80.830 Jul 0.0000 1.278 2.139 3.417 56.333 Jul	3.520 10.781 0.000 14.301  1.220 3.200 10.200 12.050 26.670 40.971 80.830  Aug 0.000 0.362 0.000 0.362 40.609  Aug	Sep 1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000 1.104 29.178 Sep	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total 24.212 14.760 28.649 67.621  382.085
Project Generation 200	PUMPING SU	0.000 2.607 0.000 2.607 0.000 1.620 0.000 1.620 0.000 0.000 0.000 0.700 0.700 3.527 Nov	0.000 2.105 0.000 10.400 4.640 5.580 20.620 22.725 35.550 Dec 3.636 0.000 5.320 8.956 13.769 Dec 23.6	0.000 1.915 0.000 1.915 6.060 11.940 10.200 12.050 40.250 42.165 64.610  Jan 5.001 0.000 6.308 11.309 30.856  Jan 33.8	0.000 1.828 0.000 1.828 4.680 10.060 9.240 10.880 34.860 36.688 57.412 Feb 3.994 0.000 5.686 9.680 27.008	0.000 1.676 0.000 1.676 5.120 10.450 10.200 12.050 37.820 39.496 62.789 Mar 4.436 0.639 3.038 8.113 31.383 Mar 28.6	Apr 0.660 0.000 2.216 2.980 7.760 9.880 11.690 32.310 34.526 72.673 Apr 	May 3.940 1.692 0.000 5.632 3.240 8.260 10.200 12.050 33.750 39.382 75.890 May 0.000 5.708 3.063 8.771 30.611 May 18.2	Jun 3.800 18.000 0.000 21.800  1.220 3.200 9.880 11.690 25.990  47.790 73.850  Jun 0.000 5.708 0.760 6.468  41.322 Jun 7.6	Jul 3.940 18.600 0.000 22.540 4.320 10.640 10.2050 37.210 59.750 80.830 Jul	3.520 10.781 0.000 14.301  1.220 3.200 10.2050 26.670  40.971 80.830  Aug 0.000 0.362 40.609  Aug 7.6	Sep 1.500 9.282 0.000 10.782  1.260 3.300 6.730 8.210 19.500 30.282 78.240 Sep 0.742 0.362 0.000 1.104 29.178 Sep 7.8	19.300 78.846 0.000 98.146  35.460 94.180 101.570 120.350 351.560  449.706 792.734  Total 24.212 14.760 28.649 67.621  382.085

Lake Estes														
Lake Estes		10 050	1 600	10 100	11 040	10.000	10 450		0.000		10 640			
Dake Dates	Min gwh Max gwh	13.350	1.620 1.620	10.400 10.400	11.940 11.940	10.060 10.060	10.450 10.450	7.760 7.760	8.260 8.260	3.200 3.200	10.640 10.640	3.200 3.200	3.300 3.300	
	Max gwii	13.330	1.020	10.400	11.940	10.000	10.430	7.700	8.200	3.200	10.040	3.200	3.300	
Olympus Tunnel	Min kaf	30.3	4.1	23.6	33.8	26.4	28.6	17.6	28.9	32.7	33.8	14.3	10.1	
Olympus Tunnel	Max kaf	30.3	4.1	23.6	33.8	26.4	28.6	17.6	28.9	32.7	33.8	14.3	10.1	
Pole Hill	Min gwh	22.640	0.000	5.750	25.260	19.720	21.380	13.480	21.620	24.460	25.260	10.810	6.950	
Pole Hill	Max gwh	22.640	0.000	5.750	25.260	19.720	21.380	13.480	21.620	24.460	25.260	10.810	6.950	
		TA	ABLE										5C	
												PAC	GE 5 of 5	
Flatiron 1&2	Min	10 050	0.000	E E00	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12 050	8.210	
Flatiron 1&2	Min gwh Max gwh		0.000	5.580 5.580	12.050	10.880	12.050	11.690	12.050	11.690	12.050	12.050 12.050	8.210	
riaciion 142	Max gwii	12.030	0.000	3.300	12.050	10.000	12.030	11.090	12.050	11.030	12.030	12.030	0.210	
Load following	Min gwh	53.400	1.620	21.730	55.310	45.340	49.000	35.910	45.170	40.570	52.270	27.280	19.720	
Load following	Max gwh	53.400	1.620	21.730	55.310	45.340	49.000	35.910	45.170	40.570	52.270	27.280	19.720	
Total project	Min gwh	64.144	4.227	23.835	57.225	47.168	50.676	38.126	50.802	62.370	74.810	41.581	30.502	
Total project	Max gwh	64.144	4.227	23.835	57.225	47.168	50.676	38.126	50.802	62.370	74.810	41.581	30.502	
CENTED 1 # 1 C1 D 1														
GENERATION CAPA														
Project Generat:	ion 2008	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
Base Generation	:													
Green Mtn	mw	11.8	3.6	2.8	2.6	2.7	2.3	2.2	2.3	25.0	25.0	14.5	12.9	
Flatiron 3	mw													
Big Thompson	mw	2.6 14.4	3.6	2.8	2.6	2.7	2.3	0.9 3.1	5.3 7.6	5.3 30.3	5.3 30.3	4.7 19.2	2.1 15.0	
Total base loa	ad mw	14.4	3.0	2.0	2.0	2.7	2.3	3.1	7.6	30.3	30.3	19.2	15.0	
Load Following	Generation	ı:												
Marys Lake														
Min Capacity	y mw	0.8	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Duration	hr/d	1.6	16.2	6.1	12.0	4.0	2.4	10.9	10.0	10.6	5.7	10.6	10.8	
Max Capacity		8.1	2.7	8.1	8.1	8.1	8.1	8.1	8.1	3.2	8.1	3.2	3.3	
Duration	hr/d	21.8	7.8	16.9	12.0	19.0	20.6	12.1	13.0	12.8	17.3	12.8	12.4	
Lake Estes	, 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	
Min Capacity Duration	hr/d	12.2	16.2	12.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Max Capacity	-	39.3	7.0	29.8	45.0	32.9	35.7	20.8	22.3	9.4	30.1	9.4	9.7	
Duration	hr/d	11.8	7.8	12.0	10.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	
Pole Hill														
Min Capacity		0.0	0.0	0.0	34.0	0.0	0.0	0.0	0.0	34.0	34.0	0.0	0.0	
Duration	hr/d	1.9	15.8	6.7	12.0	4.6	3.0	11.1	2.8	12.0	12.0	12.0	12.0	
Max Capacity		34.0	11.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	30.6	20.2	
Duration	hr/d	22.2	8.2	17.3	12.0	19.4	21.0	12.9	21.2	12.0	12.0	12.0	12.0	
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	16.1	12.0	8.7	12.0	12.0	11.6	12.0	9.5	8.7	12.0	12.0	
Max Capacity		78.4	13.0	57.2	86.0	64.9	72.0	43.5	73.2	85.2	86.0	35.2	23.8	
Duration	hr/d	11.6	7.9	12.0	10.0	12.0	12.0	12.5	12.0	10.0	10.0	12.0	12.0	
Total Load Follo			_											
Min Capacity	mw	0.8	0.0	0.0	42.1	0.0	0.0	0.0	0.0	34.0	34.0	0.0	0.0	
Max Capacity	mw	159.8	33.7	129.1	173.1	139.9	149.8	106.4	137.6	131.8	158.2	78.4	57.0	
Total Project Ca	apacity													
Min Capacity	mw	15.2	3.6	2.8	44.7	2.7	2.3	3.1	7.6	64.3	64.3	19.2	15.0	
Max Capacity	mw	174.2	37.3	131.9	175.7	142.6	152.1	109.5	145.2	162.1	188.5	97.6	72.0	

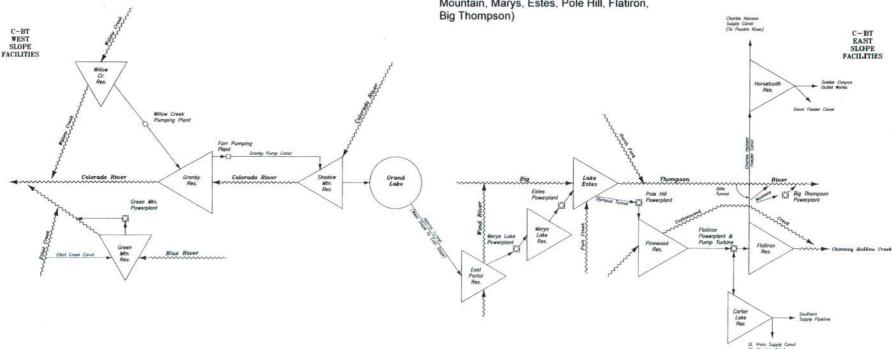


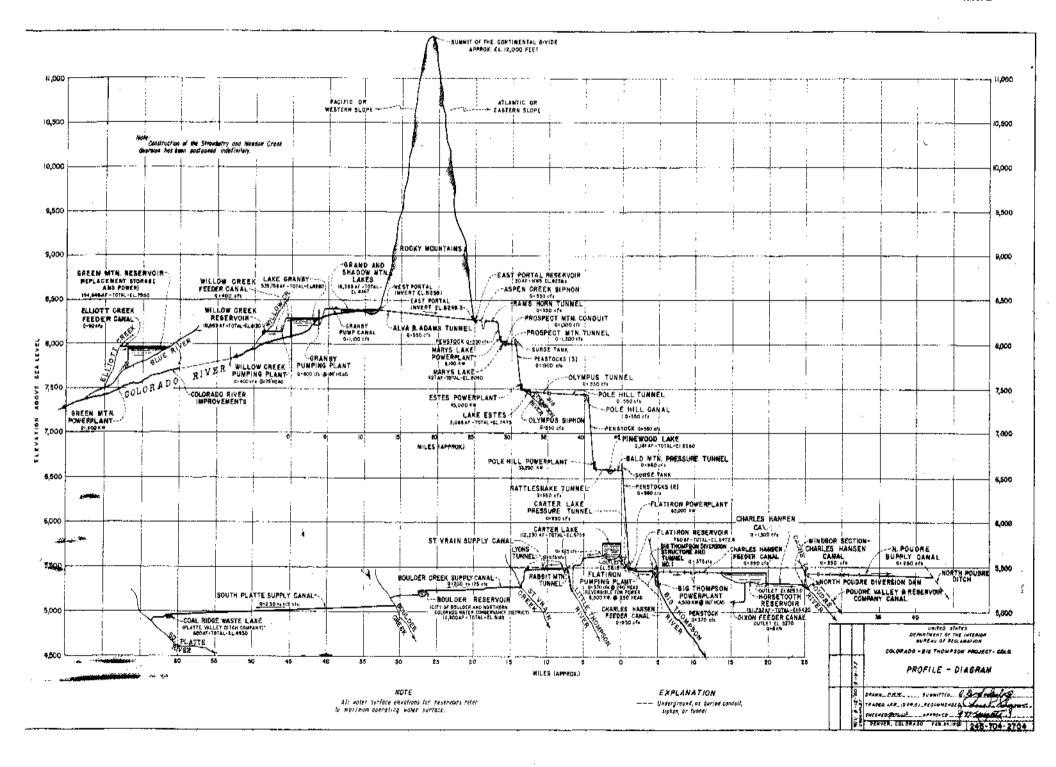


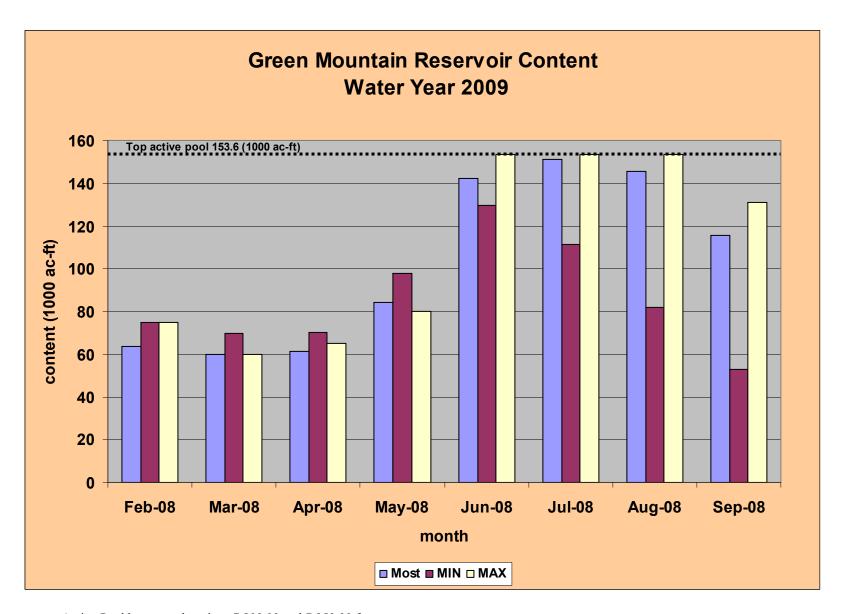
#### Colorado-Big Thompson Facts

- A trans-mountain, trans-basin water diversion, storage, and delivery project
- > Signed into law by President Roosevelt in 1937
- Construction period: 1938-1952
- Ten major reservoirs (Green Mountain, Willow Creek, Granby, Shadow Mountain, Marys Lake, Estes, Pinewood, Carter, Flatiron and Horsetooth)
- Twenty major dams and dikes
- > Twenty-two tunnels, canals and other conduits covering about 130 miles
- Six hydroelectric powerplants (Green Mountain, Marys, Estes, Pole Hill, Flatiron. Big Thompson)

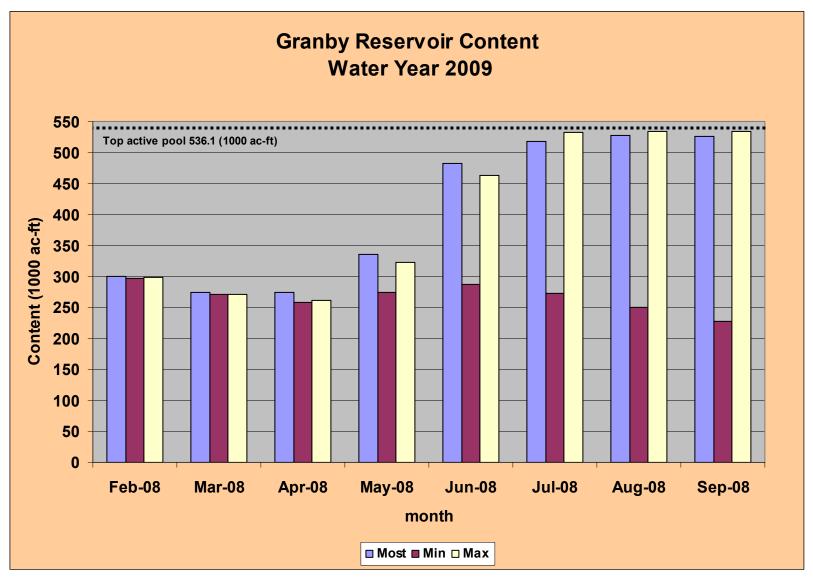
- > Water right allows for diversion of up to 310,000 acre-feet of water a year
- Average annual diversion over life of project is 260,000 acre-feet
- Water falls over 2000 feet from Continental Divide to Colorado's eastern Plains, providing for hydroelectric power generation.
- > Together, all six powerplants generate approximately 759 million kilo-Watt hours of electricity a year-enough to power 58,300 American homes for a year.
- > The C-BT provides water to 29 cities and towns, including 620,000 irrigated acres and a population of 725,000 people



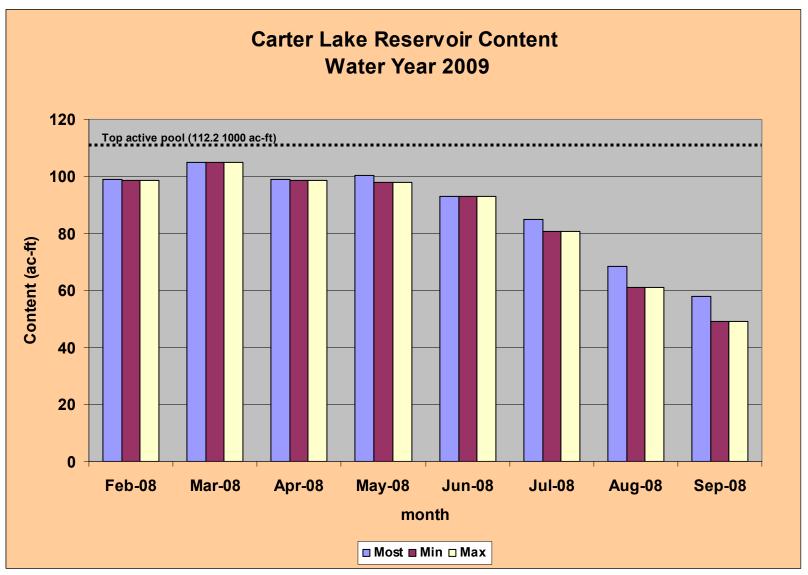




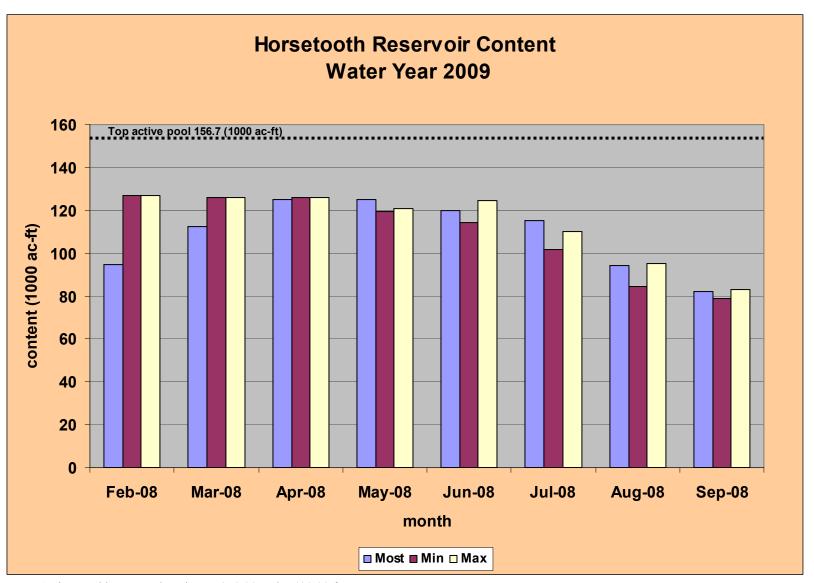
Active Pool between elevations 7,800.00 and 7,950.00 feet.



Active Pool between elevations 8,186.90 and 8,280.00 feet.



Active Pool between elevations 5,618.00 and 5,759.00 feet.



Active Pool between elevations 5,270.00 and 5,430.00 feet.

# WESTERN DIVISION POWER SYSTEM WATER YEAR 2008 – GENERATION AND PUMP ENERGY SUMMARY

The total hydropower generation produced by Colorado-Big Thompson Project (C-BT) powerplants during water year 2008 was 105% of average. The Western Division Power System's (System) gross power generation for the water year was 2454.1 GWh or 93% of average. The System's total generation (gross generation minus the energy used for pumping at Farr Plant, Willow Creek pump, Flatiron unit #3 and Mount Elbert's) was 1901.8 GWh.

Total generation is the gross generation less the energy used for pumping; gross generation also includes one-half of the Yellowtail generation. The total System load includes firm energy deliveries, C-BT use energy, support energy, plant station service, and an estimate of transmission system losses. The Western Division Power System boundaries are illustrated in Exhibit 1. Table 1 in this section includes the total generation for every powerplant in the system. Table 3 shows monthly generation and pumping energy, by plant, as well as monthly System loads for the water year. The total energy that was required to operate the pumps in the System in included in Table 2. The numbers included in this section were provided by Western Area Power Administration.

Inflow for the C-BT collection system over the west slope was high during the spring and summer, especially for Green Mountain Reservoir. There were near-record snowpack readings at some location over the west slope in the spring of 2008. The runoff conditions combined with high demands for C-BT water during the spring and summer months from the east slope produced conditions that required prolonged water diversions through Adams Tunnel. Pumping at the Willow Creek Canal, the Farr Plant, and the Flatiron Powerplant was significant as C-BT diversions continued through the summer months. The energy used at those three plants to pump C-BT water during water year 2008 totaled 88.2 GWh. That represents 140% of the 30-year average. The total energy used from the System to pump water during water year 2008 totaled (including Mount Elbert) 552.37 GWh. That pumping energy total represents 225% of the 30-year average.

The Western Area Power Administration's Loveland Area Office sold 2,658,000 mega-watt-hours (MWh) of power during water year 2008 for a total of \$83,510,000 (numbers provided by Western Area Power Administration). Energy deficits were covered by a combination of scheduled interchange energy, use of the Mount Elbert pumped storage plant, and power purchases. The Western Area Power Administration's Loveland Area Office power purchases totaled 677,000 MWh during water year 2008, for which they paid a total of \$46,119,000 (numbers provided by Western Area Power Administration).

# WESTERN DIVISION POWER SYSTEM WATER YEAR 2009 – GENERATION AND PUMP ENERGY FORECAST

Under the most probable runoff conditions plan for November, 2008, the gross generation for the C-BT powerplants is projected to be 372.3 GWh for the water year 2009, while pump energy requirements from the C-BT Power System are expected to reach 65.3 GWh. The total generation for the entire Western Division Power System (System) is expected to be 1,811.0 GWh, with a total load of 2,163.4 GWh, leaving a shortfall of 352.4 GWh. The System generation includes one-half of the total Yellowtail Powerplant generation and the Mount Elbert Powerplant generation resulting from Fryingpan-Arkansas Project water deliveries. The total load includes energy deliveries under firm contracts, seasonal support energy deliveries, energy dedicated for C-BT use, estimates of station service energy, and estimates of transmission system losses. Under the most probable runoff conditions there will be a shortfall over the entire System of 428.4 GWh between October of 2008 and the end of April of 2009, followed by a surplus of 76 GWh between May and September, 2009.

Under the reasonable-minimum runoff conditions, the total System total generation is projected to be 1,645.3 GWh during water year 2009, 165.7 GWh less than the total generation projected under most probable runoff conditions. Also under the reasonable-minimum runoff plan, pump energy requirements for the C-BT would total 71.0 GWh while the C-BT powerplants will generate a total of 434.8 GWh. The total System load is expected to be 2,163.4 GWh over the entire water year, leaving a total generation shortfall of 518.1 GWh. Under the reasonable-minimum runoff conditions total generation shortfalls are expected for almost every month of the water year, with the only exceptions of May and June.

If reasonable-maximum runoff conditions occur during water year 2009, the System generation should total 2,045.4 GWh, 234.4 GWh more than the generation projected under most probable runoff conditions. Under the reasonable-maximum conditions the total C-BT pump energy requirements would be 67.6 GWh. The total System load is expected to be 2,163.4 GWh over the entire water year, leaving a total generation shortfall of 118.0 GWh. Under those conditions a total generation shortfall of 450.1 GWh is projected for the months October through April, while a surplus of 332.1 GWh is projected for the period between May and September.

Tables 4A through 4C summarize the projected monthly System generation, pump energy, and loads for the three forecasted runoff conditions for water year 2009. Exhibits 3A through 3C graphically display the gross generation less pumping for the C-BT contributing to the System for the most probable, reasonable-minimum, and reasonable-maximum inflow conditions. Tables 5a and 5b lists the scheduled maintenance for the various facilities in the C-BT. Tables 6 and 7 summarize the capacity data for the powerplants and pumping plants within the System, including the Yellowtail and Mount Elbert units.

## WESTERN DIVISION SYSTEM GROSS GENERATION - WATER YEAR 2008 (Energy in GWh)

	, i	Accumulated Gross Generation <u>1</u> /							
Powerplant	WY 2008	Yearly Avg. <u>2</u> /	Percent of Avg.						
Green Mountain	63.9	51.9	123						
Marys Lake	46.2	37.3	124						
Estes	126.1	100.3	126						
Pole Hill	174.6	172.3	101						
Flatiron 1 & 2	214.2	226.7	94						
Big Thompson	5.5	10.9	50						
Seminoe	115.7	132.5	87						
Kortes	140.8	140.3	100						
Fremont Canyon	162.1	239.6	68						
Alcova	82.5	118.1	70						
Glendo	69.7	80.3	87						
Guernsey	17.4	19.4	90						
Boysen	40.9	69.3	59						
Heart Mountain	16.6	15.2 <u>3</u> /	109						
Buffalo Bill	70.2	69.4 <u>3</u> /	101						
Shoshone	20.6	20.4 <u>3</u> /	101						
Spirit Mountain	14.5	14.0 <u>3</u> /	104						
Mt. Elbert	374.4	169.0 <u>4</u> /	222						
Yellowtail <u>4</u> /	698.2	959.0 <u>5</u> /	73						
Total	2454.1	2645.9	93						

<sup>1/</sup> October-September

<sup>&</sup>lt;u>2</u>/ 1976-2005 average

 $<sup>\</sup>frac{-}{3}$ / 1995-2005 average

<sup>&</sup>lt;u>4</u>/ 1990-1999 average

<sup>5/ 1971-1990</sup> average; one-half of the Yellowtail energy is dedicated to the Western Division System through marketing arrangement. The other half is marketed through the Eastern Division System.

#### WESTERN DIVISION SYSTEM PUMP ENERGY-WATER YEAR 2008

	October-September Pump Energy							
Pumping Plant	WY2008 (GWh)	Avg. <u>1</u> / (GWh)	Percent of Avg.					
Willow Greek	12.9	5.7	226					
Granby (Farr Plant)	35.2	30.6	115					
Flatiron Unit #3	40.1	26.8	150					
Mt. Elbert	464.1	182.1 <u>2</u> /	255					
Total	552.3	245.2	225					

<sup>&</sup>lt;u>1</u>/ 1976-2005 average <u>2</u>/ 1990-1999 average

### PICK-SLOAN MISOURI BASIN PROGRAM WESTERN DIVISION POWER SYSTEM WATER YEAR 2008 OPERATIONS GROSS GENERATION LESS PUMPING IN GIGAWATT-HOURS

ост		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Mt. Elbert *	0.7	6.5	6.1 4.3	3 3.6		6.9 6.3	 3 0.6		7.1 7.0	 6 1.3		0.0	51.1
Green Mtn.	5.9	2.8	1.6 1.	6 2.5		4.0 4.0	6 7.9		6.1 9.9	6.5		10.5	63.9
Willow Cr. pump	0.2	0.5	0.0 0.0	0.0		0.5 0.0	6 5.0		4.3 0.8	3 0.4		0.6	12.9
Farr pump	1.1	4.5	3.8 3.4	4 2.6		4.7 4.2	2 1.5		0.1 2.8	3 1.9		4.6	35.2
Marys Lake	0.1	1.6	4.0 3.	5 2.4		4.9 4.8	8 5.2		5.1 6.0	2.7		5.9	46.2
Estes	3.7	12.4	9.6	8.1	6.6	12.0 11	.5 12.8		12.5 14	.9	7.5	14.5	126.1
Pole Hill	3.9	9.4	10.9 13	3.6	9.4	19.3 18	3.0 20.1		22.4 21	.6 10.0		16.0	174.6
Flatiron 1&2	5.3	12.7	13.6 15	5.8 10.5		23.9 22	2.8 26.2		25.4 24	.3 13.6		20.1	214.2
Flatiron 3	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
Flatiron 3 pump	1.0	1.8	0.6	0.6	0.6	6.4 6.	7 6.8		6.4 5.3	3 2.1		1.8	40.1
Big Thompson	0.0	0.0	0.0 0.	0.0		0.0 0.0	0.0		0.8 2.3	3 0.9		1.5	5.5
Seminoe	4.0	3.5	3.7 3.	8 3.6		3.7 9.	5	18.2	22.1	21.1	15.4	7.1	115.7
Kortes	5.7	5.2	5.5	5.6	5.1	5.5 12	2.7 23.0		25.1 22	.7 16.7		8.0	140.8
Fremont Canyon	3.1	4.9	5.4	5.0	4.7	7.6 24	.5 25.5		13.3 31	.1 26.1		10.9	162.1
Alcova	4.3	2.9	3.0	3.0	2.8	4.1 10	.9 14.9		5.9 14	.0 11.6		5.1	82.5
Glendo	0.0	0.0	0.0 0.	0.0		0.0 1.	7	13.1	11.0	23.2	18.4	2.3	69.7
Guernsey	0.0	0.0	0.0 0.	0.0		0.0 1.0	0 4.5		4.2 2.2	2 4.2		1.3	17.4
Pilot Butte **	0.7	0.0	0.0 0.	0.0		0.0 0.0	0.0		0.0 0.2	2 0.6		0.5	2.0
Boysen	1.3	1.6	1.4 1.	6 1.3		1.5 2.	2 4.6		9.1 6.9	5.7		3.7	40.9
Shoshone	1.6	1.7	1.1 1.3	2 1.4		1.6 1.	8 2.0		1.9 2.2	2 2.1		2.0	20.6
Buffalo Bill	1.1	0.0	0.0	0.0	0.0	0.0	4.9	13.1	12.8	13.4	12.9	12.0	70.2
Spirit Mtn.	1.0	0.0	0.0 0.	0.0		0.0 0.0	0 1.8		2.5 3.2	2 2.9		3.1	14.5
Diamond Cr. pump	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
Heart Mtn.	0.9	0.0	0.0 0.	0.0		0.0 0.3	3 3.4		3.1 2.8	3 2.8		3.3	16.6
Yellowtail/2	13.3	16.8		9.0 17.8		18.3 16	5.9 26.4		86.9 57	.1 28.6		28.3	349.1
 Fry-Ark	0.7	6.5	6.1 4.3	3 3.6		6.9 6.3	3 0.6		7.1 7.0	 6 1.3		0.0	51.1
CŘT	16.6	32.1		3.6 28.2		52.5 50			61.5 70			61.5	542.3
North Platte	17.1	16.5		7.4 16.2		20.9 60			81.6	114.3 92	2.4	34.7	588.2
Bighorn	19.9	20.1	22.4 21	1.8 20.5		21.4 26			116.3 85			52.9	513.9
TOTAL GEN	54.3	75.2	81.4	82.0	68.5	 101.7 14	 2.9 210.0		266.5 27	7.8 186.1		149.1	1695.5
TOTAL LOAD	162.5	162.3		2.6 137.1			6.3 184.8			2.2 211.2		156.8	2163.4
SURPLUS/DEFICIT	-108.2	-87.1	-95.8	-90.6	-68.6	-47.5	-33.4 25.2		55.3 15		-25.1	-7.7	-467.9

## PICK-SLOAN MISOURI BASIN PROGRAM WESTERN DIVISION POWER SYSTEM WATER YEAR 2009 FORECASTED OPERATIONS MOST PROBABLE WATER SUPPLY CONDITION GROSS GENERATION AND PUMPING IN GIGAWATT-HOURS

ОСТ		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Mt. Elbert *	1.3	2.4	2.4	2.5	3.1	2.5	3.5	3.9	4.7	4.4	2.0	1.0	33.7
Green Mtn.	8.8	2.6	1.9	1.7	1.5	1.9	1.7	1.0	8.2	8.6	8.3	8.6	54.8
Willow Cr. pump	0.0	0.0	0.0	0.0	0.0	0.4	0.4	4.1	3.0	0.6	0.2	0.2	8.9
Farr pump	4.4	0.7	3.6	5.0	4.0	4.5	1.9	0.0	0.0	0.7	1.0	2.2	27.9
Marys Lake	5.4	0.0	0.0	6.1	4.7	5.2	3.0	3.5	1.8	3.7	1.9	2.8	38.1
Estes	13.4	1.6	10.4	11.9	10.1	10.5	7.8	8.7	4.7	9.3	5.0	7.4	100.8
Pole Hill	10.2	0.0	4.6	10.2	9.2	10.2	9.9	10.2	9.9	10.2	9.5	9.9	104.0
Flatiron 1&2	12.1	0.0	5.6	12.1	10.9	12.1	11.7	12.1	11.7	12.1	11.2	11.7	122.9
Flatiron 3	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
Flatiron 3 pump	2.3	0.0	5.3	6.3	5.7	3.1	0.0	3.1	1.3	1.4	0.0	0.0	28.5
Big Thompson	1.9	0.0	0.0	0.0	0.0	0.0	0.5	3.6	3.8	3.8	2.0	1.2	16.9
Seminoe	5.1	4.9	5.1	5.1	4.6	10.8	18.4	19.5	20.0	21.1	20.7	7.4	142.7
Kortes	5.6	5.4	5.6	5.6	5.0	12.1	20.7	21.3	20.7	21.3	21.4	7.9	152.5
Fremont Canyon	0.3	6.4	6.6	6.6	6.0	9.1	34.7	32.4	38.6	36.2	33.9	14.8	225.7
Alcova	4.2	4.1	4.2	4.2	3.8	5.5	16.0	16.8	19.9	17.9	17.9	7.7	122.0
Glendo	0.0	0.0	0.0	0.0	0.0	0.0	2.2	18.6	19.3	24.2	18.1	2.6	84.9
Guernsey	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.8	3.7	3.8	3.8	3.4	19.9
Pilot Butte**	0.4	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.2	1.2	1.2	1.2	7.0
Boysen	3.8	3.6	3.8	3.8	3.4	3.8	7.2	11.9	11.5	11.5	7.9	5.6	77.7
Shoshone	1.3	1.3	1.3	1.3	0.3	0.8	1.2	1.7	2.2	2.2	2.2	2.0	17.8
Buffalo Bill	5.9	4.1	4.2	4.2	3.8	4.2	4.0	13.4	13.0	13.4	13.4	13.0	96.4
Spirit Mtn.	1.7	0.0	0.0	0.0	0.0	0.0	1.1	2.7	3.2	3.2	3.3	3.0	18.1
Diamond Cr. pump	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
Heart Mtn.	1.9	0.0	0.0	0.0	0.0	0.0	0.9	4.5	4.3	4.5	4.5	4.3	24.7
Yellowtail/2	33.1	28.9	29.5	29.0	25.9	28.3	30.1	42.1	51.2	48.2	36.0	33.4	415.7
Fry-Ark	1.3	2.4	2.4	2.5	3.1	2.5	3.5	3.9	4.7	4.4	2.0	1.0	33.7
CBT	45.0	3.5	13.6	30.7	26.7	31.8	32.2	31.9	35.8	45.0	36.6	39.2	372.1
North Platte	15.2	20.8	21.5	21.5	19.3	37.5	93.4	112.4	122.0	124.6	115.8	43.9	747.8
Bighorn	48.0	37.8	38.8	38.3	33.3	37.1	45.1	77.4	86.5	84.2	68.4	62.5	657.4
TOTAL GEN	 109.4	 64.6	76.2	93.0	82.5	 108.9	 174.2	 225.5	 249.0	 258.2	 222.8	 146.6	 1811.0
TOTAL CEN	162.5	162.3	177.2	172.6	137.1	149.2	174.2	184.8	211.2	262.2	211.2	156.8	2163.4
SURPLUS/DEFICIT	-53.1	-97.7	-101.0	-79.6	-54.6	-40.3	-2.1	40.7	37.8	-4.0	11.6	-10.2	-352.4

<sup>\*</sup> PROJECTED VALUES ARE HISTORIC AVERAGE FLOW THROUGH ENERGY

<sup>\*\*</sup> PROJECTED VALUES ARE MARKETED ENERGY

## PICK-SLOAN MISOURI BASIN PROGRAM WESTERN DIVISION POWER SYSTEM WATER YEAR 2009 FORECASTED OPERATIONS REASONABLE-MINIMUM WATER SUPPLY CONDITION GROSS GENERATION AND PUMPING IN GIGAWATT-HOURS

ОСТ		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Mt. Elbert *	1.3	2.4	2.4 2.5		5 3.9 4.7 4.	 4 2.0 1.0							33.7
Green Mtn.	8.8	2.6	1.8 1.7	' 1.5 2.0 <b>1</b> .	6 0.6 0.7 4.3	3 3.4 2.8							31.8
Willow Cr. pump	0.0	0.0	0.0 0.0	0.0 0.4 0.	4 2.0 0.6 0.2	2 0.1 0.1 3	.7						
Farr pump	4.4	0.7	3.6 5.0	4.1 4.5 1.	9 0.0 0.0 3.	5 3.4 3.7							34.7
Marys Lake	5.4	0.0	0.0 6.1	4.8 5.2 3.	1 3.9 2.9 5.2	2 3.9 4.1							44.6
Estes	13.4	1.6	10.4 11	.9 10.1 10.	5		8.0	9.8	7.5 13	3.0	9.8 10.2	2	116.0
Pole Hill	10.2	0.0	4.6 10	.2	9.2 10.	2	9.9 10	).2	9.9 10	.2 10.2		9.9	104.7
Flatiron 1&2	12.0	0.0	5.6 12	.1 10.9 12.	1 11.7 12.0	11.7 12.1	12.1 11.7						123.8
Flatiron 3	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	.0						
Flatiron 3 pump	2.3	0.0	5.3	6.2	5.7 3.2	0.0 3.0 2.	6 2.4 1.1 0	.7					32.6
Big Thompson	1.9	0.0	0.0 0.0	0.0 0.0 0.	2 2.3 3.8 2.	7 1.6 1.3							13.9
Seminoe	5.1	4.9	5.1	5.1	4.5	5.0 19	.1 19.4 19.	3 19.1 10.7				5.5	122.7
Kortes	5.6	5.4	5.6	5.6	5.0	5.6 21	.4 22.1 22.	.2 22.9 13.6				7.3	142.4
Fremont Canyon	0.3	6.4	6.6	6.6	6.0	9.0 40	.9 39.0 35.	.5 37.5 34.7				8.7	231.2
Alcova	4.2	4.1	4.2	4.2	3.8	5.4 20	.2 21.2 19.	.0 19.7 19.7				4.7	130.2
Glendo	0.0	0.0	0.0 0.0	0.0 0.1 2.	6			16.7	18.1	23.5	17.8 1.5		80.4
Guernsey	0.0	0.0	0.0 0.0	0.0 0.0 1.	4 3.8 3.7 3.	6 3.6 3.1							19.1
Pilot Butte **	1.2	0.5	0.0 0.0	0.0 0.0 0.	8 1.9 4.0 3.	8 3.7 1.7							17.6
Boysen	3.7	3.6	3.7 3.7	3.3 3.7 3.	8 5.7 5.9 6.	7 5.4 4.3							53.8
Shoshone	1.3	1.3	1.3 1.3		2 1.3 1.3 1.4	4 1.3 1.2							13.9
Buffalo Bill	5.4	4.1	4.2	4.2	3.8	4.2	4.0 13	3.3 12.8 13.1	13.3 10.9	93.1			
Spirit Mtn.	1.7	0.0	0.0 0.0	0.0 0.0 1.	1 3.0 3.0 3.	1 3.0 2.9							17.8
Diamond Cr. pump	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					
Heart Mtn.	1.9	0.0	0.0 0.0	0.0 0.0 0.	9 1.5 1.7 3. <sup>-</sup>	1 1.1 0.3							10.5
Yellowtail/2	32.2	26.3	26.9 26	.6 23.7 26.	0 21.1 26.5	26.6 27.6	27.2 24.8						315.4
Fry-Ark	1.3	2.4	2.4 2.5	3.1 2.5 3.	5 3.9 4.7 4.	4 2.0 1.0							33.7
CBT	45.0	3.5	13.5 30	.7 26.7 31.	7 32.1 33.9	33.3 41.4	36.4 35.5						363.7
North Platte	15.1	20.8	21.5	21.4	19.3	25.1 10	5.6 122.2 <sup>2</sup>	117.8 126.3	100.0			30.8	725.9
Bighorn	47.3	35.7	36.1 35	.7 31.1 34.	7 32.9 53.1	55.4 58.7	55.1 46.0						522.0
TOTAL GEN	108.7	62.5	73.5	90.4	80.2	94.0 17	 4.1 213.1 2	 211.2 230.9	 193.4 113	3.3			1645.3
TOTAL LOAD	162.5	162.3	177.2 17	2.6 137.1 1	149.2 176.3								2163.4
SURPLUS/DEFICIT	-53.8	-99.8	-103.7	-82.2	-56.9 -55	5.2	-2.2	28.3	0.0 -3	1.3 -17.8 -43	.5		-518.1

<sup>\*</sup> PROJECTED VALUES ARE HISTORIC AVERAGE FLOW THROUGH ENERGY

<sup>\*\*</sup> PROJECTED VALUES ARE MARKETED ENERGY

### PICK-SLOAN MISOURI BASIN PROGRAM WESTERN DIVISION POWER SYSTEM WATER YEAR 2009 FORECASTED OPERATIONS REASONABLE-MAXIMUM WATER SUPPLY CONDITION GROSS GENERATION AND PUMPING IN GIGAWATT-HOURS

ОСТ		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
Mt. Elbert *	1.3	2.4	2.4 2.5	3.0 2.5 3	.5 3.9 4.7 4.	4 2.0 1.0							33.6
Green Mtn.	8.8	2.6		1.8 1.7 1					18.0	18.6	10.8 9.3		78.8
Willow Cr. pump	0.0	0.0			.7 5.7 5.7 1.	3 0.4 0.4							14.8
Farr pump	4.4	0.7			.4 0.0 0.0 0.								24.2
Marys Lake	5.4	0.0			.0 3.2 1.2 4.								35.5
Estes	13.4	1.6	10.4	11.9	10.1	10.5 7.8	8 8.3 3.2			10.6 3.	2 3.3		94.2
Pole Hill	10.2	0.0	4.6 10	.2	9.2 10	.2	9.9 10	).2	9.9 10	.2 10.2		6.7	101.6
Flatiron 1&2	12.1	0.0	5.6 12	.1 10.9 12	.1 11.7 12.1	11.7 12.1	12.1					8.2	120.4
Flatiron 3	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						
Flatiron 3 pump	2.3	0.0	5.3	6.3	5.7 3.0	0.0 3.1 0.	8 2.1 0.0 0	.0					28.6
Big Thompson	1.9	0.0	0.0 0.0	0.0 0.0 0	.7 3.9 3.8 3.	9 3.5 1.5							19.3
Seminoe	5.2	5.0	5.1	5.1	4.6	5.1	9.9 33	3.5 31.5 31.	9 19.9 15.3				172.2
Kortes	5.6	5.4	5.6	5.6	5.0	5.6 10	.5 27.6 26.	7 27.6 19.0	14.7				159.0
Fremont Canyon	0.3	6.4	6.6	6.7	6.0	9.2 12	.7 11.1 14.	2 47.3 47.3	29.2				197.0
Alcova	4.2	4.1	4.2 4.2	2 3.8 5.5 4	.1 4.3 5.2					22.1	22.2	14.1	97.9
Glendo	0.0	0.0	0.0	0.0	0.0	0.1	2.3 16	3.8 <b>12.2 25</b> .9	9 21.7 12.7	91.7			
Guernsey	0.0	0.0	0.0 0.0	0.0 0.0 1	.5 3.8 3.7 3.	8 3.8 3.3							19.9
Pilot Butte**	1.6	0.0	0.0 0.0	0.0 0.0 0	.7 1.5 3.5 4.	1 3.0 1.7							16.1
Boysen	3.8	3.7	3.8	3.8	3.4	3.8 10	.7 11.2 11.	4 11.9 10.0				6.7 8	34.2
Shoshone	1.3	1.3	1.3 1.3	0.3 0.8 1	.3 2.2 2.2 2.	2 2.2 2.0							18.3
Buffalo Bill	6.0	4.1	4.2	4.2	3.8	4.2	4.1 13	3.4 13.0 13.4	4 13.4 13.0	96.7			
Spirit Mtn.	1.6	0.0	0.0 0.0	0.0 0.0 1	.1 2.8 2.9 3.	2 3.2 3.0							17.8
Diamond Cr. pump	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					
Heart Mtn.	1.8	0.0	0.0 0.0	0.0 0.0 0	.9 4.5 4.3 4.	5 4.5 4.3							24.7
Yellowtail/2	32.3	29.6	30.3 29	.9 26.6 40	.4 52.7 93.8				100.5	107.0 48	3.0 43.3		634.3
Fry-Ark	1.3	2.4	2.4 2.5	3.0 2.5 3	.5 3.9 4.7 4.	4 2.0 1.0							33.6
CBT	45.0	3.5	13.8 30	.9 27.0 31	.4 32.5 30.6	41.3 56.3	40.6 29.2						382.1
North Platte	15.2	20.9	21.5 21.	.5 19.4 25	.5 41.0 97.1	93.6				158.7	133.9 89.4	•	737.7
Bighorn	48.4	38.7	39.6 39	.1 34.2 49	.2 71.4			129.4	137.7	146.3 84	1.2 74.0		892.0
TOTAL GEN	109.9	65.4	77.3	94.0	83.6 10	8.6 148.3 2	 261.0 277.3	365.7 260	.7 193.6				2045.4
TOTAL LOAD	162.5	162.3	177.2 17	2.6 137.1	149.2 176.3	184.8 211	.2 262.2 21	11.2 156.8					2163.4
SURPLUS/DEFICIT	-52.6	-96.9	-99.9	-78.6	-53.5	-40.6	-28.0 76	5.2 66.1		103.5 49	9.5 36.8		-118.0

<sup>\*</sup> PROJECTED VALUES ARE HISTORIC AVERAGE FLOW THROUGH ENERGY

<sup>\*\*</sup> PROJECTED VALUES ARE MARKETED ENERGY

COLORADO-BIG THOMPSON AND FRYINGPAN-ARKANSAS PROJECTS MAINTENANCE SCHEDULE FOR WATER YEAR 2008

Table 5

Facility	Description of outage	Begin date	Ending date	Power Generation Affected	Water Deliveries Affected
Marys Lake Plant	Annual Maintenance	Mon 10/26/09	Fri 12/4/09	Yes	No
Estes Units #1	Annual Maintenance	Mon 1/12/09	Fri 2/20/09	partial	No
Estes Units #2	Annual Maintenance	Mon 3/2/09	Fri 4/10/09	partial	No
Estes Units #3	Annual Maintenance	Mon 4/13/09	Fri 5/22/09	partial	No
Flatiron Units - 1 & 2	Power Constraint	Fri 1/2/09	Mon 9/28/09	partial	partial
Flatiron Unit 1	Unit Rewind	Mon 1/5/09	Sun 8/30/09	Yes	partial
Flatiron Unit 2	Annual Maintenance	Thu 10/1/09	Sun 11/1/09	partial	No
Flatiron Unit 3	Annual Maintenance	Mon 4/20/09	Fri 5/29/09	No	No
Pole Hill Unit	Annual Maintenance	Mon 11/2/09	Fri 12/4/09	Yes	Yes
Big T Unit	Annual Maintenance.	Mon 2/9/09	Fri 3/20/09	No	No
CHFC (550 section)	NCWCD Maintenance	Mon 9/7/09	Fri 9/18/09	No	partial
CHFC (930 section)	NCWCD Maintenance	Fri 4/3/09	Fri 4/17/09		
Green Mtn Unit 1	Annual Maintenance	Mon 2/9/09	Thu 3/19/09	No	No
Green Mtn Unit 1	Excitation Contract	Mon 2/9/09	Thu 3/19/09	No	No
Green Mtn Unit 1	Transformer KZ1A/WAPA	Mon 3/23/09	Thu 3/26/09	No	No
Green Mtn Unit 2	Annual Maintenance	Mon 12/1/08	Thu 1/22/09	No	No
Green Mtn Unit 2	Excitation Contract	Thu 1/1/09	Thu 1/22/09	No	No
Green Mountain	Spillway Repair	Thu 1/1/09	Sun 12/6/09	No	No
Mt. Elbert Units 1&2	Power Constraint	Mon 12/1/08	Thu 12/31/09	Yes	No
Mt. Elbert Unit 1	Repair Rotor Arms	Mon 12/1/08	Tue 3/31/09	Yes	No
Mt. Elbert Unit 2	Annual Maintenance	Mon 11/1/09	Thu 12/10/09	Yes	No
Mt. Elbert Unit 1	Unit Breaker - SF-6	Mon 5/25/09	Fri 6/5/09	Yes	No
Mt. Elbert Unit 2	Unit Breaker - SF-6	Mon 11/9/09	Fri 11/20/09	Yes	No

#### 

Facility	No. Units	Capacity Each Unit	Total Installed Capacity	Normal Operating Head (ft)	Output at Rated Head (ft <sup>3</sup> /s)
Green Mountain	2	13,000	26,000	192-262	1,660
Marys Lake	1	8,100	8,100	202-217	550
Estes	3	16,500	49,500	551-571	1,300
Pole Hill	1	33,250	33,250	830-838	550
Flatiron	2	43,000	86,000	1,096 - 1,118	1,070
(Flatiron <u>1</u> /)	1	8,500	8,500	158-287	440
Big Thompson	1	5,300	5,300	183- 184	350
Seminoe	3	15,000	45,000	97-227	2,850
Kortes	3	12,000	36,000	192-204	2,700
Fremont Canyon	2	33,000	66,000	247-363	2,200
Alcova	2	18,000	36,000	153-165	2,200
Glendo	2	19,000	38,000	73-156	2,800
Guernsey	2	2,400	4,800	89-91	820
Pilot Butte <u>2</u> /	2	800	1,600		
Boysen	2	7,500	15,000	72-112	2,415
Shoshone <u>3</u> /	1	3,000	3,000		
Buffalo Bill <u>3</u> /	3	6,000	18,000		
Heart Mountain	1	5,000	5,000	265-275	355
Mt. Elbert	2	103,000	206,000	447-477	6,400
Yellowtail	4	72,000	288,000	327-440	8,500
TOTAL	34		979,050		

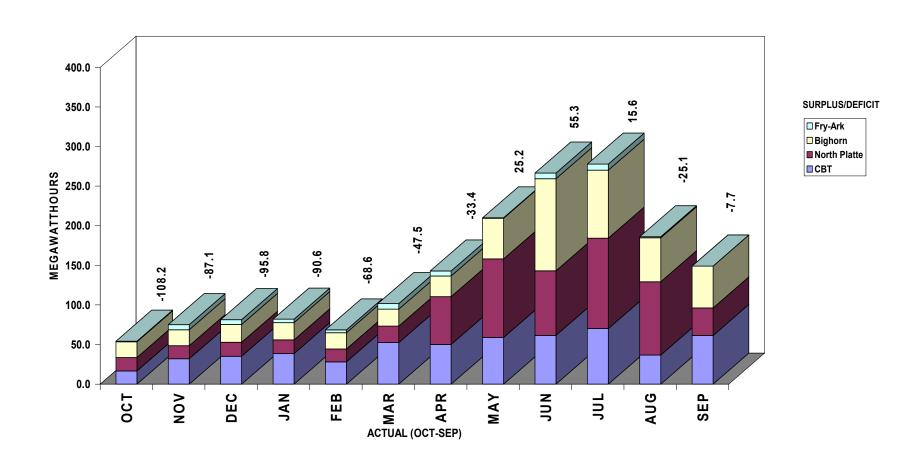
#### WESTERN DIVISION - PICK-SLOAN MISSOURI BASIN PROGRAM

#### **PUMPING PLANT DATA**

Pumping Units Plant Rating

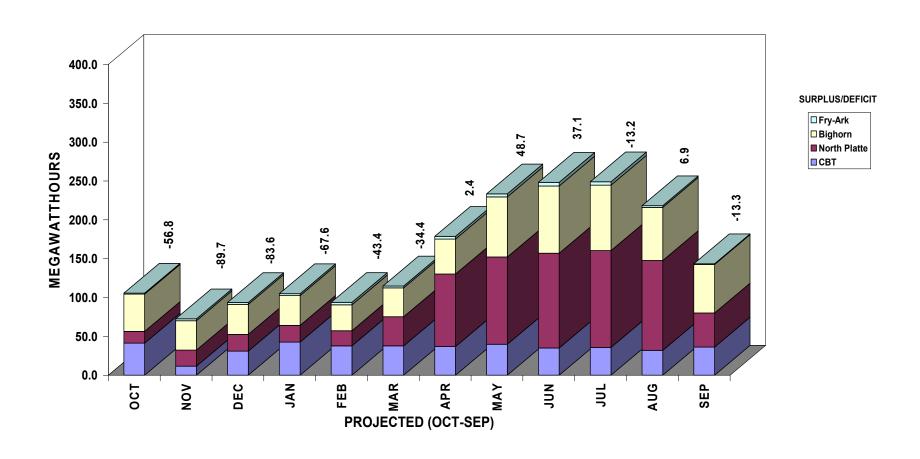
	1 unipi				
Facilities	No	Capacity (ft <sup>3</sup> /s)	Normal Operating Head (ft)	Installed (Hp)	Kwh to Pump 1- Acre-ft at Maximum Head
Granby	3	600	92-186	18,000	227
Willow Creek	2	400	167-169	18,000	227
Flatiron	1 <u>1</u> /	440	173-287	13,000	391
Mt. Elbert	2	5,690	447-477	340,000	620

#### LAP GROSS GENERATION LESS PUMPING WATER YEAR 2008

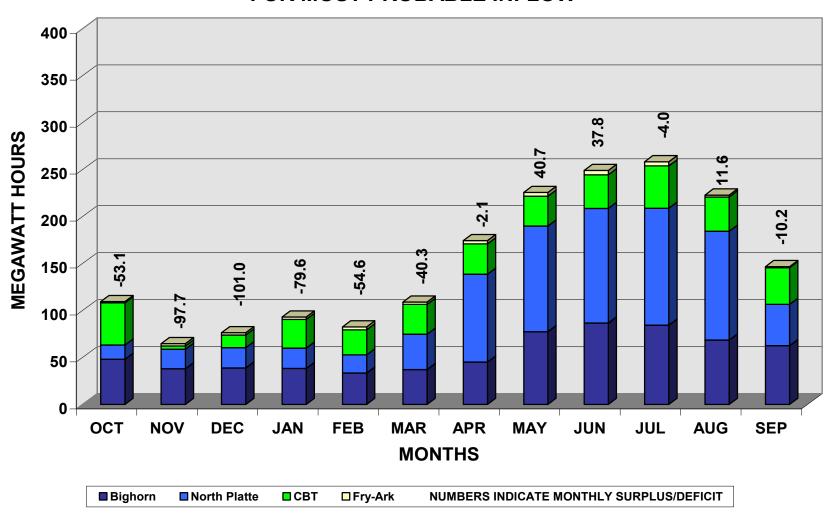


#### Exhibit 3

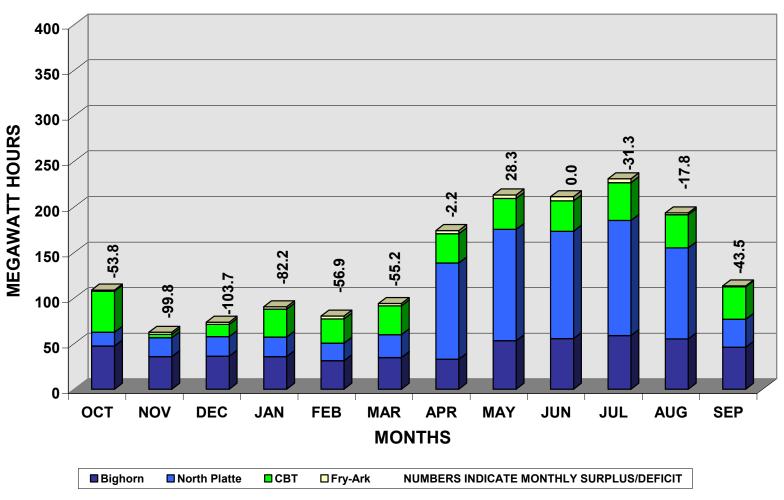
#### LAP GROSS GENERATION LESS PUMPING WATER YEAR 2009



# PROJECTED LAP GROSS GENERATION LESS PUMPING WATER YEAR 2009 FOR MOST PROBABLE INFLOW



#### PROJECTED LAP GROSS GENERATION LESS PUMPING WATER YEAR 2009 FOR REASONABLE MINIMUM INFLOW



#### PROJECTED LAP GROSS GENERATION LESS PUMPING WATER YEAR 2009 FOR REASONABLE MAXIMUM INFLOW

