

# SWEET GRASS CREEK

## Water Supply and Storage Potential Study

### 2006-2008



Montana Department of Natural Resources and  
Conservation

DNRC Report: WR 2.D.7a SGC Sweet Grass Creek  
Helena, Montana  
March 2010



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## **Introduction**

The Sweet Grass Water Users (SGWU) is a group of local citizens interested in managing Sweet Grass Creek to benefit ranching and agriculture, while preserving the viability of the Creek as a natural resource. During the recent drought years there have been water availability conflicts on the Creek in late summer, impacting both ranch productivity and the natural resource. In May 2005, the SGWU adopted their mission statement as follows: “an effort for cooperation and collaborative education of water users to address issues of water quantity on Sweet Grass Creek.”

In 2005, the SGWU outlined the following rationale for initiating a water quantity study:

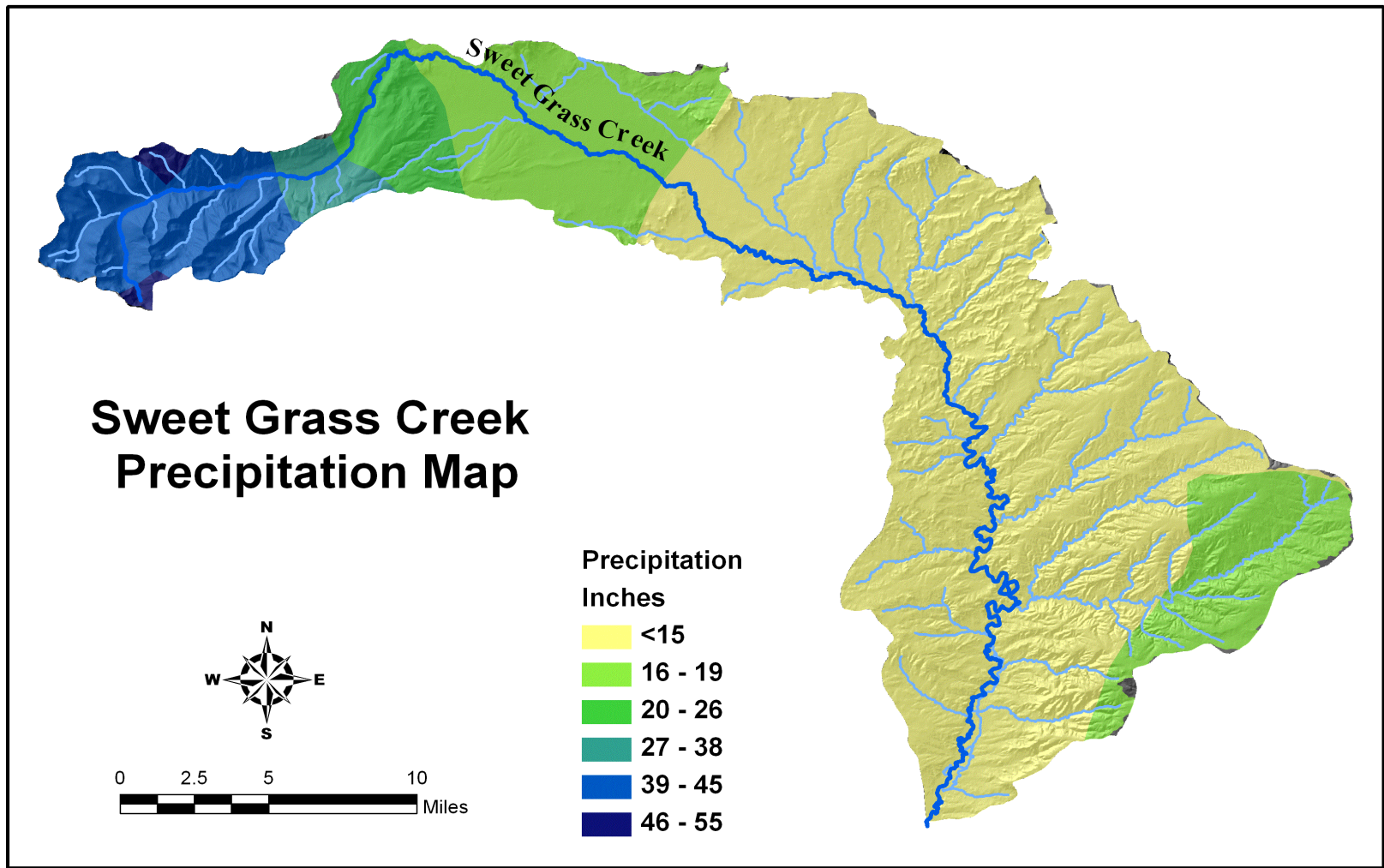
1) stream gaging to understand the mechanics of the creek along the entire watershed, 2) resolve disputes involving flows for irrigation, 3) investigate high flows for possible use in an off stream storage reservoir, and 4) collect baseline data for fisheries and recreation. In March 2006, the SGWU secured \$6,000 in funding for a stream gaging project through a Montana Department of Natural Resources and Conservation watershed planning assistance grant. The DNRC, with assistance from the SGWU and Montana Fish Wildlife and Parks (FWP) initiated the study in April 2006 with the installation of six stream flow gages. This document serves as the final report for the data collected under the grant.

## **Project Area**

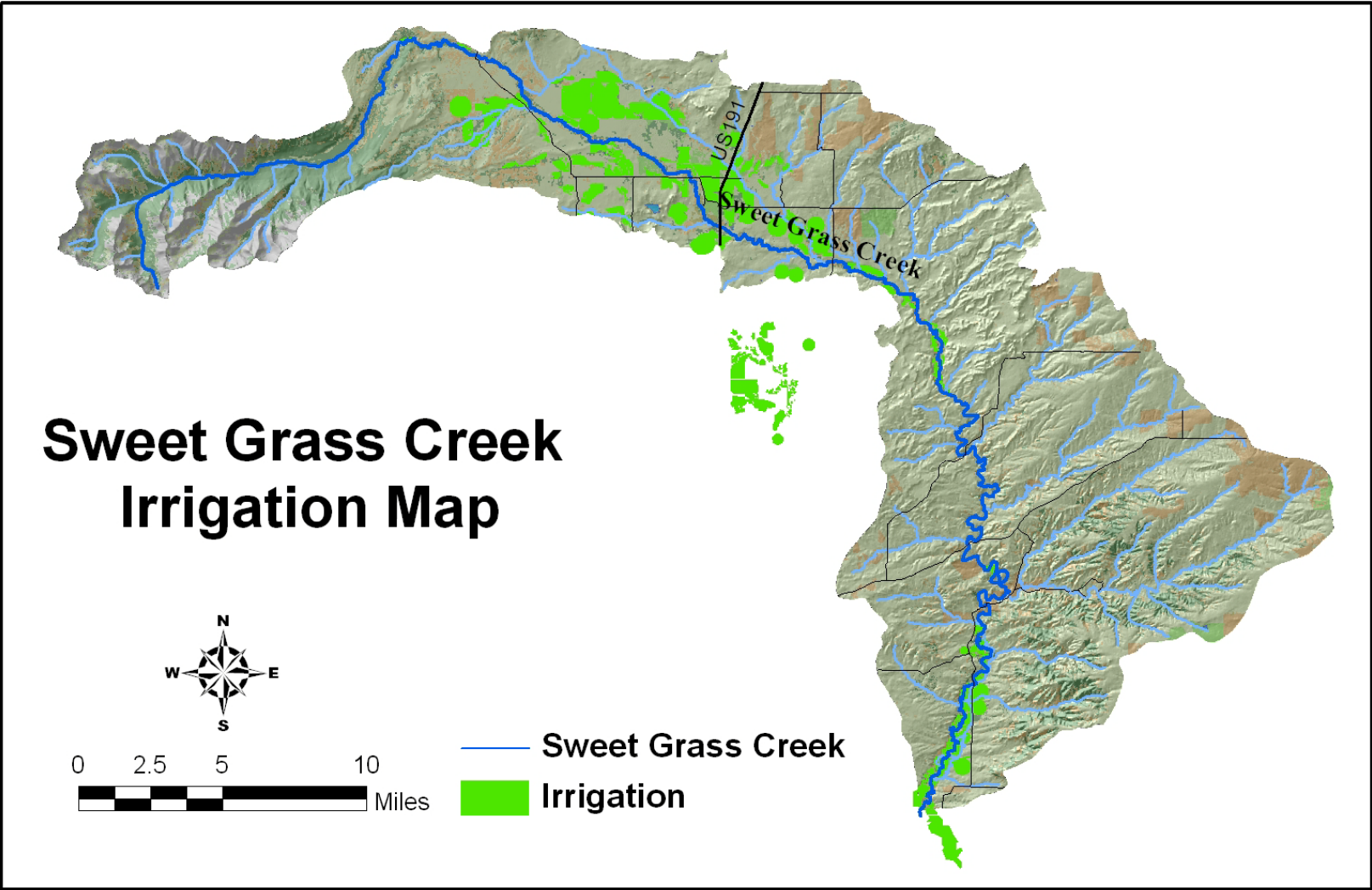
Sweet Grass Creek arises from the northeastern Crazy Mountains and heads generally east before veering south to its confluence with the Yellowstone River, seven miles east of the town of Big Timber, Montana. The Creek has a drainage area of approximately 370 square miles and is predominantly fed by year-round snowmelt from the Crazy Mountains. High flow events are generally a result of rain-on-snow that forces rapid snowmelt in the late spring. Average annual precipitation ranges from 15 inches near Big Timber to over 45 inches at the highest elevations, with the majority of the watershed receiving less than 20 inches (Map 1).

After leaving its headwaters, the Creek flows toward the town of Melville through Tertiary and Quaternary aged gravels eroded from the Crazy Mountains. As Sweet Grass Creek flows east of highway 191 Tertiary aged sandstones appear and the Creek turns southeast along the western flank of the Cayuse hills, until reaching the Yellowstone River. Sweet Grass Creek has a number of small tributaries including the East Fork Sweet Grass Creek and Cayuse Creek; however, they originate in the lower elevation hills and do not contribute substantial natural flows except following significant lower-elevation precipitation events.

With the exception of the forested headwaters, the project area is primarily private land used for hay production, irrigated pasture, and livestock grazing. There are approximately 14,000 acres of irrigation within the watershed, with over two thirds of the irrigation consisting of flood irrigation (Map 2). The majority of the irrigation is within the upper half of the watershed near the town of Melville, with smaller amounts situated on the lower end of the watershed near the confluence with the Yellowstone River. In addition, Sweet Grass Creek supplies approximately 3,000 acres of irrigation outside the watershed through Glasston Lakes and an additional 600 acres along the Yellowstone.



Map 1. Precipitation map of the Sweet Grass Creek watershed.



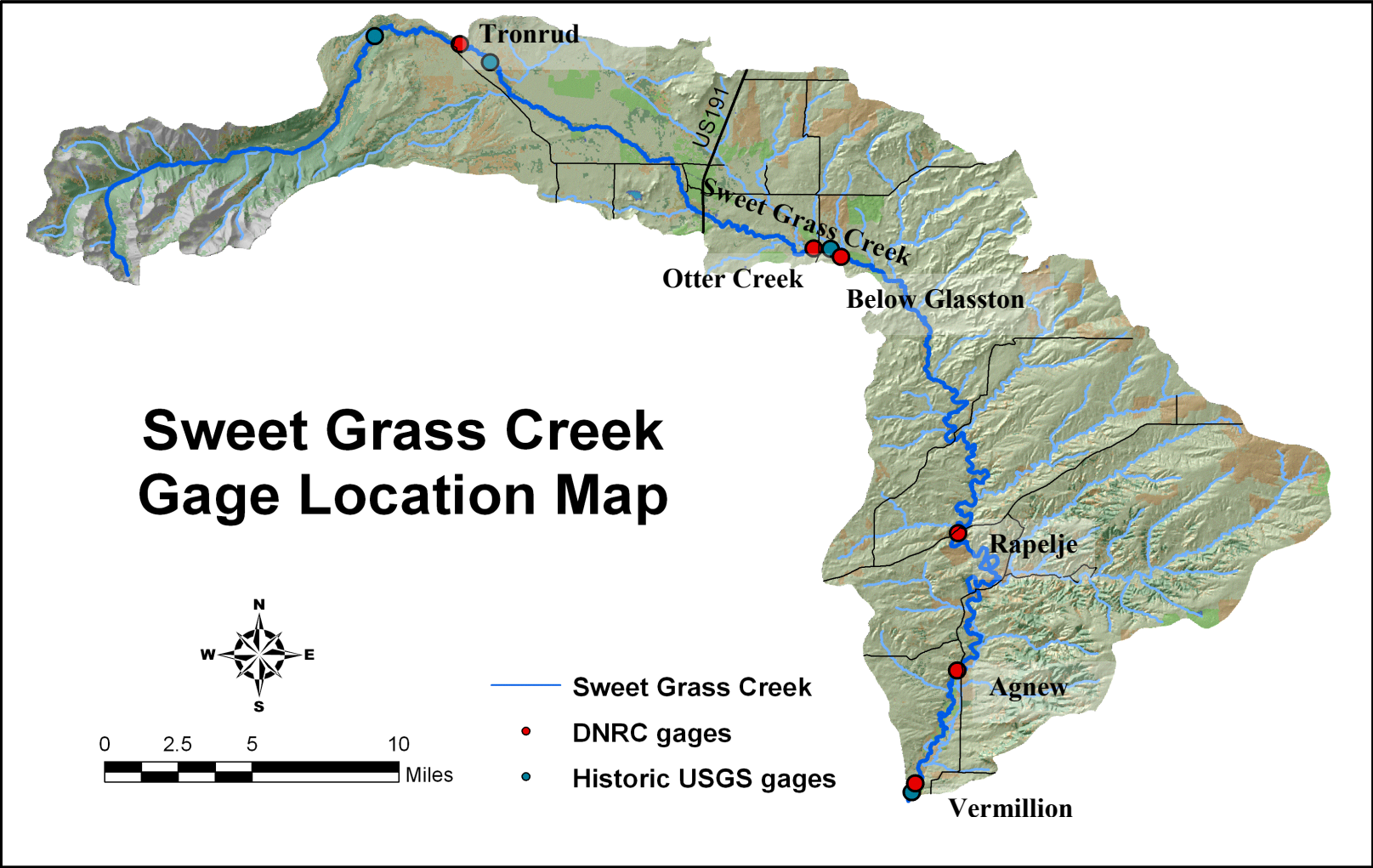
Map 2. Map showing lands irrigated by Sweet Grass Creek.

## Stream Flow Monitoring

In April 2006 the DNRC along with representatives from the SGWU and FWP installed six stream flow gages to address the following goals as outlined by the SGWU: 1) stream gaging to understand the mechanics of the creek along the entire watershed, 2) resolve disputes involving flows for irrigation, 3) investigate high flows for possible use in and off stream storage reservoir, and 4) collect baseline data for fisheries and recreation. The upper most gage is located at Tronrud Bridge west of Melville and is representative of natural inflows to the watershed, with the exception of a small amount of water withdrawn for about 500 acres of irrigation above the gage. The lower most gage is located at Vermillion Bridge near the confluence with the Yellowstone River and is representative of water leaving the watershed through the river channel (Map 3). The Otter Creek Bridge gage is approximately 5 miles downstream of the highway 191 bridge. Another gage is located immediately downstream of the Glasston intake canal in order to estimate withdrawals from the Glasston Lakes intake. A gage located at Rapelje Bridge represents the flows available below all upper watershed irrigation diversions. The sixth gage is installed at Agnew Bridge below the Boggs ditch. Data were collect from April 2006 through October 2008 on a seasonal basis (generally early April through late October). Some data gaps exist in the 2008 data set due to equipment problems and removal of the gages to prevent damage during high water (May 31 – June 10).

The gage sites were equipped with capacitance-type water level recorders installed in a metal housing to protect the gage. A staff gage used to manually measure water levels was mounted on the outside of the gage housing (Photo 1). Gages were checked and data downloaded approximately once each month. During the visits, stream flow was measured using a Marsh-McBirney Flowmate 2000 current meter, and the water level on the staff gage was recorded. Any changes to the site or the downstream gage pool control were noted. High flow measurements were made at some of the gages using bridge equipment and acoustic-Doppler measuring devices. Using this data, the DNRC created rating curves for each gage and processed the water level recorder data into daily flows.

The U.S. Geological Survey (USGS) historically operated four stream gages on Sweet Grass Creek. USGS gages 6200500 (active 1913-1924, 1937-1969), and 6201000 (active 1907-1924, 1937-1942, 1946-1952) were located approximately one mile downstream from Tronrud Bridge and ½ mile downstream of Otter Creek Bridge, respectively. These USGS gages are valuable in making comparisons to data collected in this study due their proximity to the study gages and their considerable period of record. The two other USGS gages 6200400 (active 1907-1912) and 6201500 (active 1941-1942) were located approximately 3 miles above Tronrud Bridge and near the mouth of the Creek, respectively.



Map 3. DNRC and USGS gage location map.



Photo 1. DNRC gage at Tronrud Bridge.

## Water Supply

Sweet Grass Creek inflows were measured by the stream flow gage located at the Tronrud Bridge above Melville, while outflows are represented by the Vermillion Bridge gage. Tributary inflows were not measured since during the irrigation season they usually are only a small portion of the total water balance for Sweet Grass Creek. The largest tributary is Cayuse Creek and much of the flow is diverted for irrigation use before joining Sweet Grass Creek. Figure 1 shows average inflows compared to outflows for the 2006 to 2008 study period (yearly inflow and outflow graphs are located in Appendix A). The daily average inflow for the study period was 129 cfs compared to a daily average outflow of 58 cfs. The difference between the inflow and outflow lines on the graph approximates water diverted from the Creek for irrigation.

During the months of May and June irrigation withdrawals generally ranged between 100–200 cubic feet per second (CFS). In the later part of the season, irrigation withdrawals fell below 100 CFS as the amount diverted became limited by inflows rather than demand. During the study period, average inflows dropped below 50 CFS in early August and remained below 50 CFS through the end of October. The average May through October inflow volume was 46,500 acre-feet with an average outflow volume of 20,600 acre-feet, or 44 percent of the inflow. Assuming the difference between inflow and outflow volumes is due to irrigation withdrawals, then approximately 1.85 acre-feet of water is diverted per acre of irrigation.



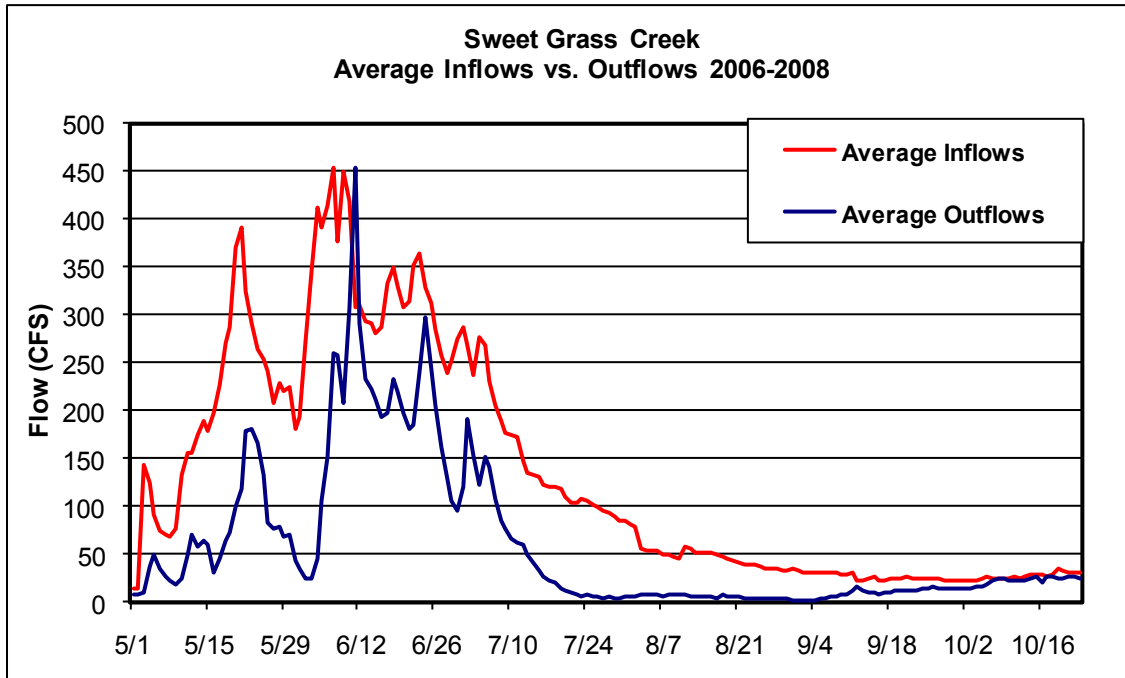


Figure 1. Average inflows versus outflows for Sweet Grass Creek 2006-2008.

Table 1 and Figure 2 compare the average inflows at Tronrud Bridge during the study period to the historic inflows recorded at USGS gage 6200500. Daily data values for each study site are compiled in Appendix B. Average inflows for May and June during the study period were similar to historic means, while July through October flows were closer to the 20<sup>th</sup> percentile (the value below which 20 percent of the observations may be found and would be considered dry conditions). Additionally, flows peaked an average of ten days earlier during the study period when compared to the historic peak flow date of June 18<sup>th</sup>. The average May through October runoff volume during the study period was 46,500 acre-feet compared to a historic volume of 55,500 acre-feet. The low water supply during the study period was likely due to decreased precipitation in the higher elevations and below average snow accumulation during the winter.

DNRC Gage	May	June	July	August	Sept	Oct
2006	261	296	104	41	20	28
2007	242	275	89	41	26	22
2008	109	429	262	65	37	31
2006-2008	<b>189</b>	<b>327</b>	<b>152</b>	<b>48</b>	<b>27</b>	<b>27</b>

USGS Gage 1913-1924; 1937-1969	May	June	July	August	Sept	Oct
Mean	178	385	204	74	46	41
20th Percentile	79	217	131	53	30	24

Table 1. Mean monthly inflows at the Tronrud gage and historic USGS gage.

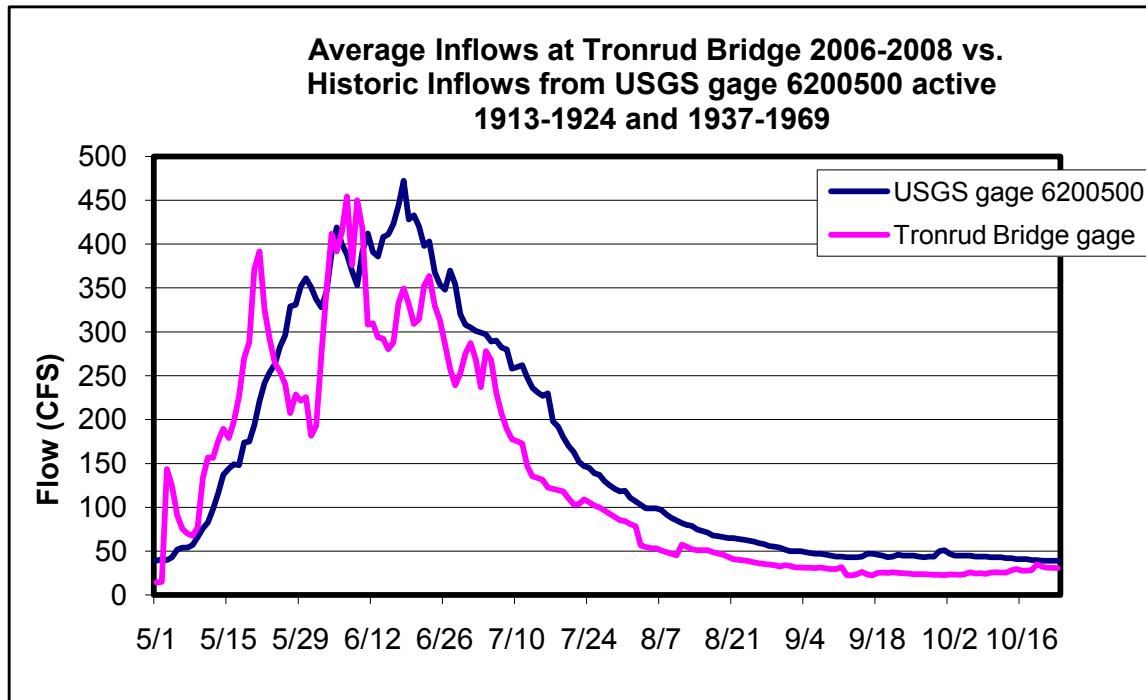


Figure 2. Average inflows during the study period compared to historic inflows.

Table 2 and Figure 3 compare the average flows at the Otter Creek Bridge during the study period to the historic flows recorded at USGS gage 6201000. Average monthly flows during the study period were below the historical mean. August through October flows were close to the historic 20<sup>th</sup> percentile flows. Sudden drops in flows at the Otter Creek Gage reflect periods of high irrigation demand upstream. The overall decrease in flows at the Otter Creek Bridge gage when compared to the historical record is partially due to decreased inflows shown in Figure 1 and partly due to irrigation diversions.

DNRC Gage	May	June	July	August	Sept	Oct
2006	153	197	41	31	12	35
2007	155	185	33	20	9	28
2008	112	464	241	30	29	35
2006-2008	<b>132</b>	<b>255</b>	<b>105</b>	<b>27</b>	<b>17</b>	<b>33</b>

USGS Gage 1907-1924; 1937-1942; 1946-1952	May	June	July	August	Sept	Oct
Mean	172	361	170	56	47	63
20 <sup>th</sup> Percentile	70	166	67	25	22	34

Table 2. Mean monthly inflows at the Otter Creek gage and historic USGS gage.

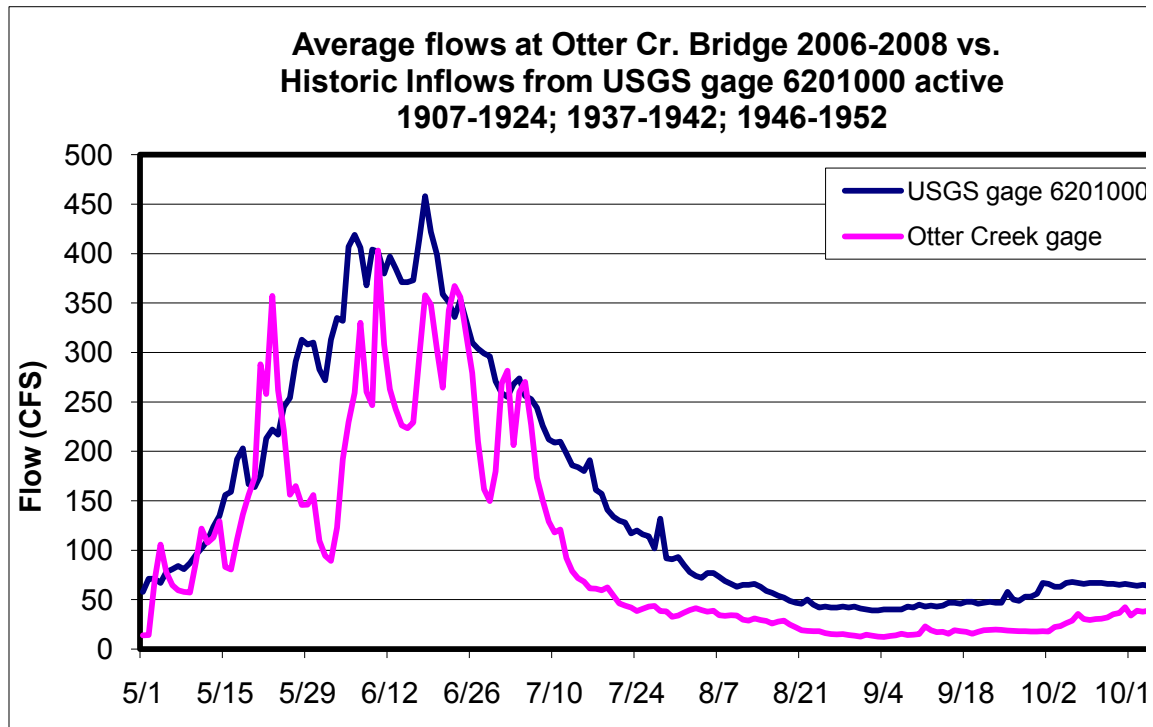


Figure 3. Average flows at Otter Creek during the study compared to historic flows.

## Potential Storage

Another goal of the study was to determine if water was available for potential off-stream storage reservoir development. This study did not explore possible locations for reservoir development. Typically, the best time to store water is during runoff when irrigation demands are low and stream flows are high. Storing water earlier in the spring or during the winter can be problematic due to snow and ice obstructing diversion structures and canals. Late fall and early winter storage is unlikely due senior right holders such as the Sweet Grass Canal and Reservoir Company's 1906 right to divert water to Glasston Lakes and the FWP winter in-stream flow reservation.

In order to determine water availability, Creek flows at the Tronrud gage were compared to rudimentary estimates of legal diversion demands. The maximum legal diversionary demand is roughly 200 cfs (400 acre-feet per day). In addition, the FWP in-stream flow reservations were accounted for when determining water availability. The in-stream flow reservation has a priority date of December 15<sup>th</sup>, 1978 and varies by month. When flows on Sweet Grass Creek exceeded both the legal diversion demands (400 acre-feet per day), and the FWP reservation, water was considered potentially storable. Table 3 shows potentially storable water during each year of the study.

Based on the analysis of the 2006 through 2008 data the average potentially storable volume of water is 3,180 acre-feet per year. This is approximately seven percent of the total inflow volume measured during the study period. Although the amount is limited,

3,000 acre-feet could supply 50 cfs over a 30-day period. Graphs of potentially storable water for each year are located in Appendix C.

Potentially Storable Water in Acre-Feet			
DNRC Tronrud Gage			
2006	2007	2008	Average
<b>2825</b>	<b>1700</b>	<b>5025</b>	<b>3180</b>

Table 3. Potentially storable water.

## Synoptic Flow Measurements

Synoptic flow measurements provide a snapshot of flow conditions at a particular time by gathering discharge data at several locations during a period of stable stream flows. The collected data are used to determine whether the system is gaining or losing water and the quantity of these gains or losses. These measurements are generally taken in the early spring prior to snowmelt or in the fall during base flow. Base flow is characterized by flow conditions that represent groundwater discharge, rather than land surface runoff or a combination of groundwater discharge and runoff.

A synoptic measurement run was conducted on April 27, 2007. The data were used to produce a schematic showing where the Creek was gaining or losing water (Figure 4). Based on the data collected, lower Sweet Grass Creek below Rapalje Bridge appears to be a relatively stable system with minor gains and losses. The upper river between Tronrud bridge and the Hwy 191 bridge lost 6 cfs, but it is unclear what percentage was natural losses and what percent was diverted for stock water and other uses. The Creek gained significantly between the highway 191 bridge and the Otter Creek gage, more than doubling its flow from 13 cfs to 31.5 cfs. Below the Otter Creek gage, approximately half of the flow was diverted to Glasston Lakes. Based on visual estimates, inflows from Cayuse Creek explain approximately half of the gain. The remainder of the gain appears to be groundwater inputs. Geologic maps for the area indicate that the Creek below highway 191 is bounded by bedrock to the south and alluvium to the north. Groundwater following the natural gradient from northwest to southeast would be forced upward into the stream as it encounters the bedrock confining layer.

During the April 2007 synoptic measurement run there was an unexplained 10 cfs loss and subsequent gain on the lower Creek (Figure 4). One possible explanation for the sudden loss and gain might be that water was diverted around that stretch in a ditch and then subsequently returned to the Creek before Vermillion Bridge. There was no indication that active irrigation was occurring in that stretch; however, ditches were not visually inspected to see if water was running during the synoptic run.

On October 22, 2009, a partial synoptic run was conducted on the Creek. During this measurement run, similar gains were found between highway 191 and the Otter Creek

Bridge. Creek flows increased from 31 cfs to 56 cfs validating the earlier finding of gains in that stretch. Unlike the April 2007 measurements, a small gain (within the limits of measurement error) was measured between the Tronrud Bridge and highway 191. Gains were also found on the lower end of the Creek below Rapalje. These gains appear to be a result of irrigation water returns and small tributary inflows.

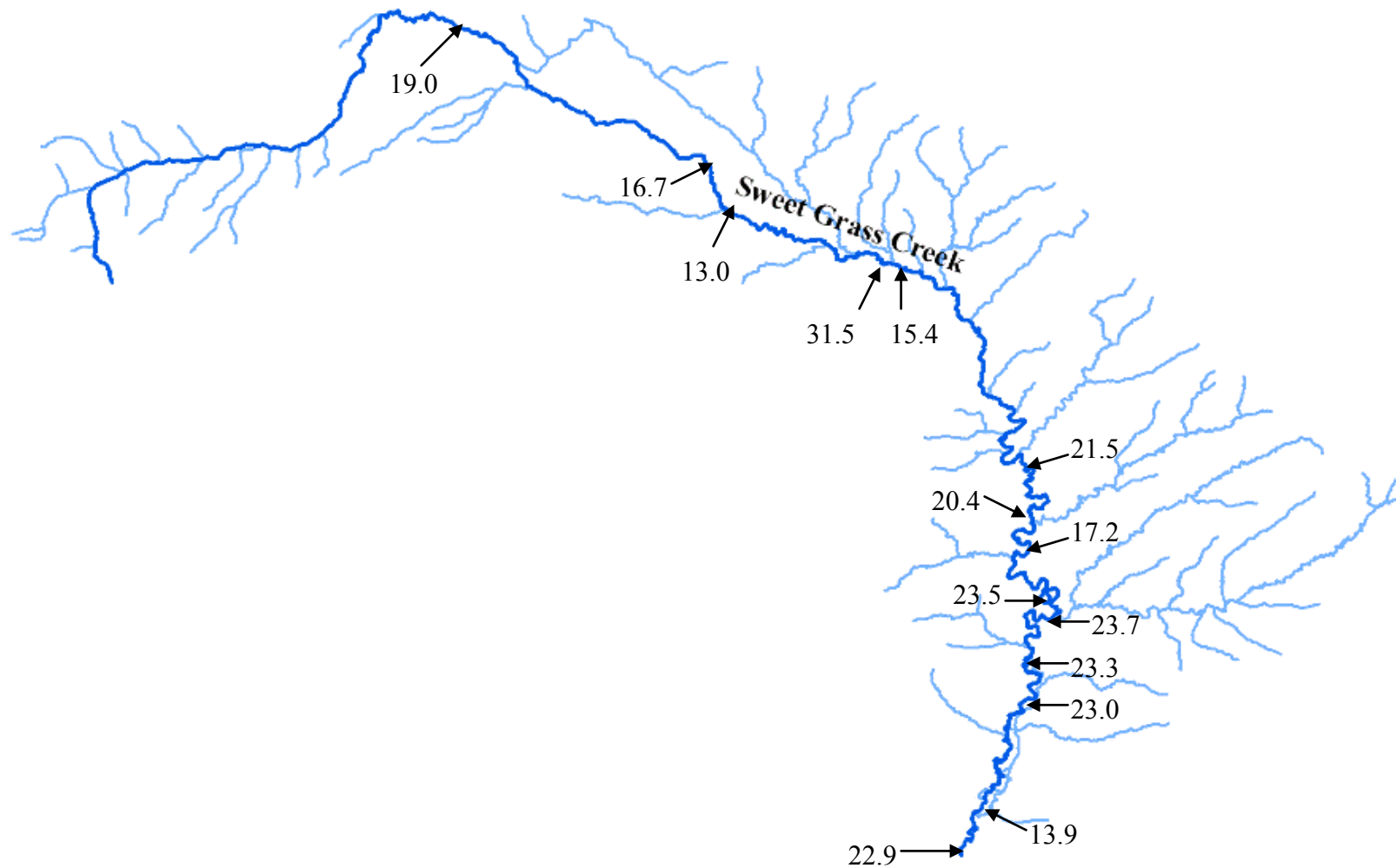


Figure 4. Results of the Synoptic measurement run April 27, 2007. All values are in CFS.

## Discussion

Stream flow data collected during the 2006-2008 irrigation seasons indicate that flows during the study period were lower than the historic USGS records. In addition, peak runoff timing has shifted earlier by approximately 10 days compared to the USGS records. The effect of these changes is reduced water availability in the later part of the irrigation season. Inflow versus outflow graphs provided in Appendix A show that little water is making it to the mouth of the Creek during the period of peak irrigation demand, from late July through the end of August. One result of the low flows is that only senior water rights are able to irrigate during the latter half of the irrigation season.

Results of the April 2007 synoptic run and subsequent follow-up measurements indicate that Sweet Grass Creek is gaining between the Hwy 191 Bridge and the Otter Creek Bridge. Some of the gain can be attributed to inflows from Cayuse Creek; however, there is a considerable ground water contribution due to the local geology. Beginning near Hwy 191 bedrock bounds the creek to the south creating a natural upwelling of the groundwater. The Creek is a relatively stable system as it moves downstream of Rapalje Bridge due to the fully bedrock controlled channel. The 10 CFS lower Creek loss and subsequent gain remain an anomaly and would require further study to determine the exact cause. A more detailed synoptic study of the entire Creek would help to define the exact location of gains and losses and their causes.

During the years 2006-2008, approximately 3,000 acre-feet per year of water was estimated to be available for off-stream storage after existing water rights and the FWP in-stream flow reservations are satisfied. If users choose to pursue off-stream storage, a more detailed examination of existing irrigation and storage water rights would need to be undertaken. One option to increase the amount of water available for storage would be to change existing senior rights to be held in storage. Water in excess of existing demands is generally available during peak flows and at a time when irrigation demand is low. If senior rights were changed this would allow the reservoir to fill for a longer period of time.

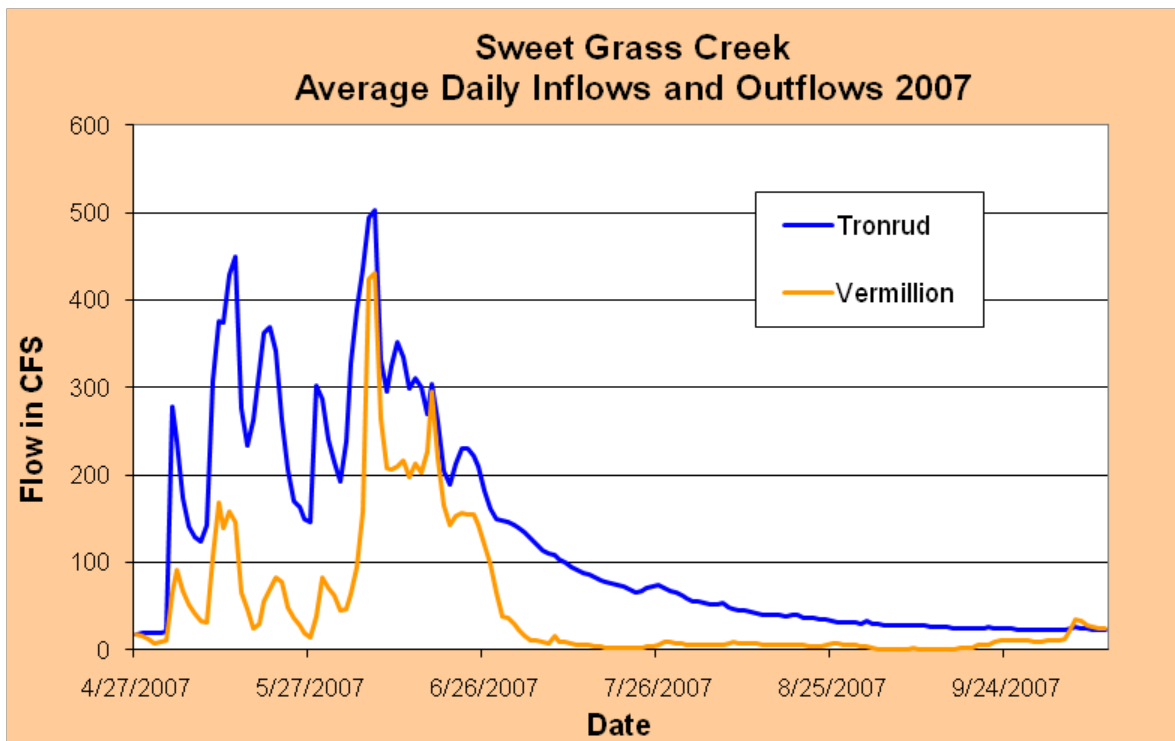
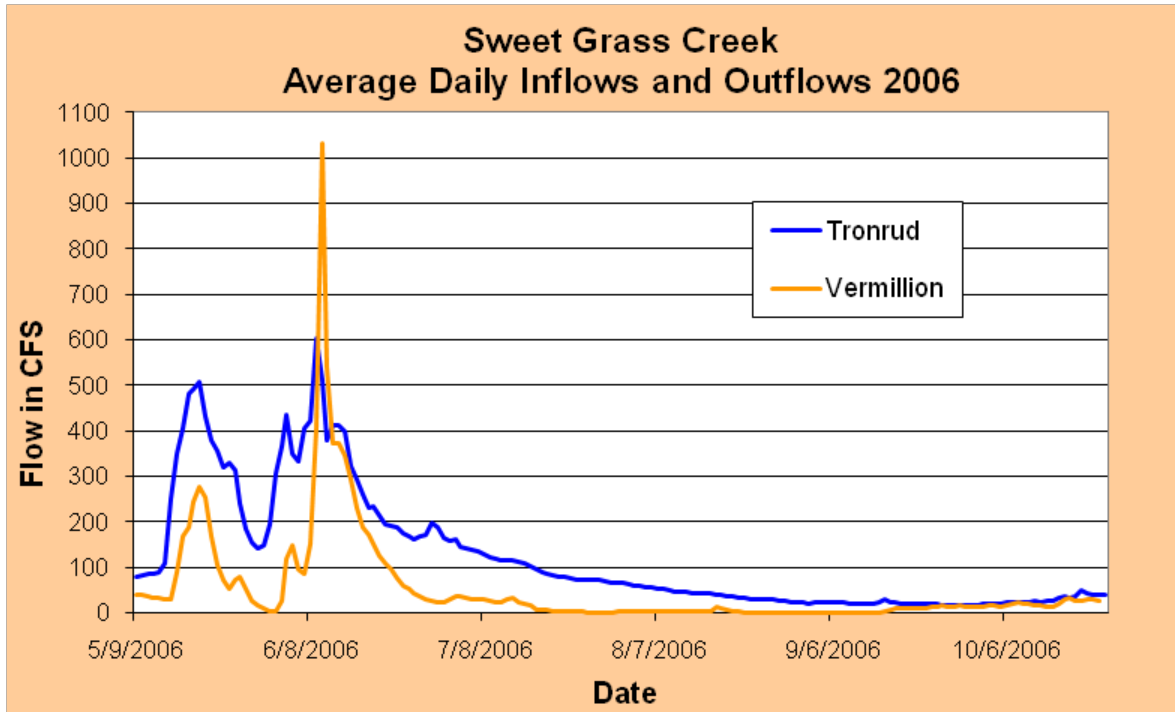
The overarching goal of this study was to provide the SGWU with information regarding stream flow in order to increase knowledge of the Sweet Grass Creek watershed and to help with management decisions. Three years of stream flow monitoring have provided valuable information to the group with the results culminating in this report. When the data are coupled with historic USGS gage records a better picture of trends over time emerges. While this document serves as the final report for data collected under the DNRC grant, stream flow data collection is continuing with support provided by the SGWU and the DNRC. A follow-up report may be produced when data for more irrigation seasons are collected.

## **Acknowledgements**

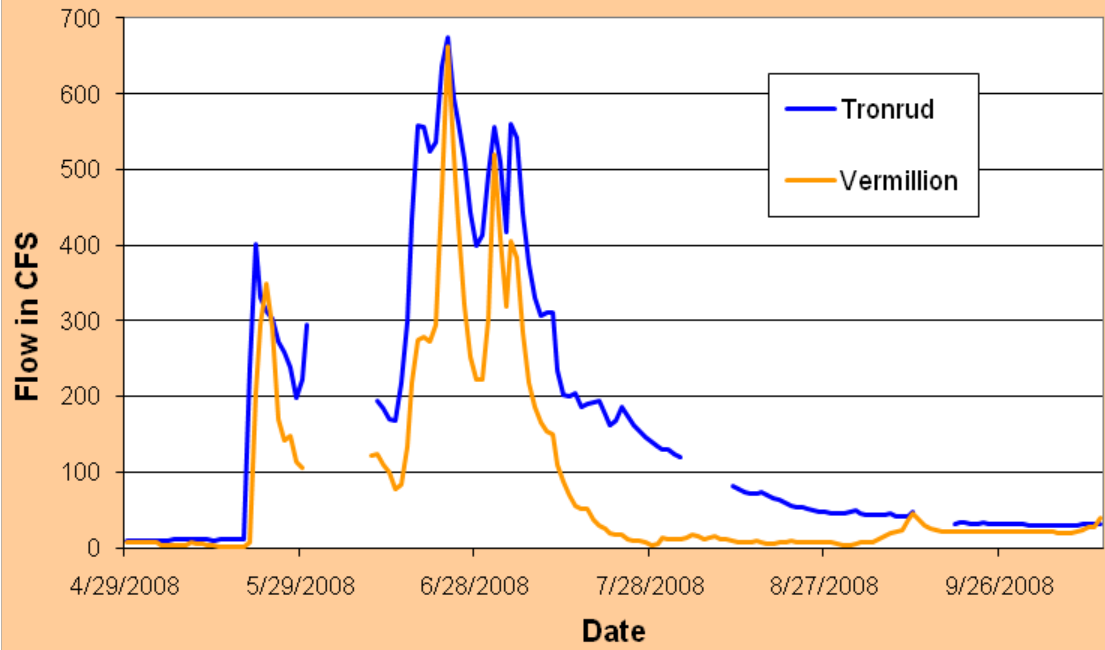
Eric Chase of the Montana DNRC prepared this report on behalf of the Sweet Grass Water Users. Funding for the project was secured by the SGWU through the Conservation District with the help of Coral Wilson. Andy Brummond of Montana Fish Wildlife provided additional support and equipment to help get the study going. The DNRC would like to specifically acknowledge the efforts of Keith Goodhart, who really made this project possible. Keith took it upon himself to complete much fieldwork for this project under the guidance of Larry Dolan and Eric Chase from the DNRC. Jerry Iverson and Lauren McMullen provided additional assistance to the project. The SGWU and the DNRC would like to thank all the landowners and ranch managers that provided access to the creek and shared their knowledge of the system. Without their cooperation the project would not have been possible.



## **Appendix A – Inflow/Outflow Hydrographs for 2006-2008**



### Sweet Grass Creek Average Daily Inflows and Outflows 2008



**Appendix B – Daily Stream Flow Data for Sweet Grass Creek  
2006-2008**

### Sweet Grass Creek at Tronrud Bridge 2006

Date	Daily Average Flow (CFS)								
5/9/2006	77.6	6/16/2006	294.4	7/24/2006	73.2	8/31/2006	23.7	10/8/2006	22.8
5/10/2006	81.4	6/17/2006	261.6	7/25/2006	72.1	9/1/2006	21.4	10/9/2006	22.2
5/11/2006	83.8	6/18/2006	231.4	7/26/2006	73.2	9/2/2006	20.6	10/10/2006	24.1
5/12/2006	85.0	6/19/2006	235.3	7/27/2006	72.5	9/3/2006	22.1	10/11/2006	24.5
5/13/2006	88.5	6/20/2006	213.1	7/28/2006	71.2	9/4/2006	21.6	10/12/2006	24.1
5/14/2006	108.2	6/21/2006	194.4	7/29/2006	69.3	9/5/2006	21.6	10/13/2006	24.6
5/15/2006	249.4	6/22/2006	192.0	7/30/2006	65.7	9/6/2006	21.6	10/14/2006	25.6
5/16/2006	349.3	6/23/2006	186.7	7/31/2006	64.8	9/7/2006	21.3	10/15/2006	32.5
5/17/2006	405.9	6/24/2006	174.4	8/1/2006	64.0	9/8/2006	21.1	10/16/2006	34.4
5/18/2006	480.6	6/25/2006	168.0	8/2/2006	61.5	9/9/2006	20.8	10/17/2006	33.5
5/19/2006	492.5	6/26/2006	160.9	8/3/2006	59.1	9/10/2006	20.6	10/18/2006	35.5
5/20/2006	507.1	6/27/2006	168.8	8/4/2006	57.5	9/11/2006	20.4	10/19/2006	48.0
5/21/2006	432.2	6/28/2006	169.9	8/5/2006	56.0	9/12/2006	19.9	10/20/2006	41.4
5/22/2006	379.8	6/29/2006	196.5	8/6/2006	54.1	9/13/2006	19.5	10/21/2006	39.9
5/23/2006	354.4	6/30/2006	187.3	8/7/2006	53.3	9/14/2006	22.5	10/22/2006	40.0
5/24/2006	320.2	7/1/2006	164.0	8/8/2006	51.6	9/15/2006	28.1	10/23/2006	39.8
5/25/2006	328.5	7/2/2006	157.1	8/9/2006	49.5	9/16/2006	22.5		
5/26/2006	313.7	7/3/2006	159.7	8/10/2006	46.8	9/17/2006	21.2		
5/27/2006	239.6	7/4/2006	146.1	8/11/2006	46.4	9/18/2006	19.8		
5/28/2006	185.4	7/5/2006	141.8	8/12/2006	44.9	9/19/2006	19.6		
5/29/2006	155.2	7/6/2006	138.1	8/13/2006	42.6	9/20/2006	19.2		
5/30/2006	141.3	7/7/2006	134.8	8/14/2006	41.8	9/21/2006	20.1		
5/31/2006	147.6	7/8/2006	129.2	8/15/2006	42.1	9/22/2006	19.6		
6/1/2006	193.6	7/9/2006	122.9	8/16/2006	41.7	9/23/2006	18.7		
6/2/2006	306.6	7/10/2006	116.8	8/17/2006	40.1	9/24/2006	18.0		
6/3/2006	364.7	7/11/2006	113.7	8/18/2006	37.5	9/25/2006	17.4		
6/4/2006	433.8	7/12/2006	116.2	8/19/2006	35.5	9/26/2006	17.3		
6/5/2006	348.2	7/13/2006	115.2	8/20/2006	34.3	9/27/2006	16.8		
6/6/2006	333.0	7/14/2006	112.9	8/21/2006	32.4	9/28/2006	16.5		
6/7/2006	406.8	7/15/2006	106.8	8/22/2006	31.3	9/29/2006	16.2		
6/8/2006	421.7	7/16/2006	102.4	8/23/2006	30.6	9/30/2006	16.3		
6/9/2006	604.9	7/17/2006	96.7	8/24/2006	30.8	10/1/2006	16.4		
6/10/2006	512.2	7/18/2006	90.0	8/25/2006	29.7	10/2/2006	19.0		
6/11/2006	378.2	7/19/2006	86.1	8/26/2006	28.9	10/3/2006	18.2		
6/12/2006	410.4	7/20/2006	82.9	8/27/2006	28.0	10/4/2006	17.9		
6/13/2006	411.1	7/21/2006	80.3	8/28/2006	26.6	10/5/2006	18.0		
6/14/2006	397.9	7/22/2006	77.2	8/29/2006	25.9	10/6/2006	24.1		
6/15/2006	323.0	7/23/2006	75.0	8/30/2006	22.6	10/7/2006	21.3		

Daily Average Flow (CFS)		Sweet Grass Creek at Otter Creek Bridge 2006							
Date	Daily Average Flow (CFS)								
5/9/2006	59.2	6/16/2006	290.3	7/24/2006	21.0	8/31/2006	9.2	10/8/2006	34.1
5/10/2006	63.2	6/17/2006	243.2	7/25/2006	21.6	9/1/2006	10.1	10/9/2006	33.1
5/11/2006	60.4	6/18/2006	211.5	7/26/2006	16.8	9/2/2006	8.5	10/10/2006	33.3
5/12/2006	55.7	6/19/2006	185.1	7/27/2006	14.3	9/3/2006	6.4	10/11/2006	33.4
5/13/2006	57.1	6/20/2006	166.8	7/28/2006	13.0	9/4/2006	5.5	10/12/2006	30.1
5/14/2006	53.2	6/21/2006	139.8	7/29/2006	18.7	9/5/2006	5.0	10/13/2006	27.6
5/15/2006	54.9	6/22/2006	128.5	7/30/2006	21.4	9/6/2006	5.6	10/14/2006	24.3
5/16/2006	118.8	6/23/2006	108.1	7/31/2006	28.9	9/7/2006	5.5	10/15/2006	24.4
5/17/2006	209.5	6/24/2006	90.2	8/1/2006	39.5	9/8/2006	4.2	10/16/2006	41.8
5/18/2006	252.1	6/25/2006	79.4	8/2/2006	43.6	9/9/2006	5.1	10/17/2006	50.1
5/19/2006	284.6	6/26/2006	74.7	8/3/2006	51.7	9/10/2006	5.4	10/18/2006	44.3
5/20/2006	301.0	6/27/2006	61.7	8/4/2006	48.3	9/11/2006	5.0	10/19/2006	46.4
5/21/2006	331.5	6/28/2006	52.8	8/5/2006	46.3	9/12/2006	4.7	10/20/2006	57.5
5/22/2006	282.5	6/29/2006	40.5	8/6/2006	42.1	9/13/2006	4.60	10/21/2006	55.5
5/23/2006	221.9	6/30/2006	40.1	8/7/2006	39.8	9/14/2006	4.89	10/22/2006	49.8
5/24/2006	204.4	7/1/2006	47.9	8/8/2006	40.7	9/15/2006	8.34	10/23/2006	48.7
5/25/2006	170.3	7/2/2006	46.4	8/9/2006	41.7	9/16/2006	23.00		
5/26/2006	166.1	7/3/2006	50.6	8/10/2006	41.0	9/17/2006	19.55		
5/27/2006	169.9	7/4/2006	58.6	8/11/2006	31.4	9/18/2006	17.09		
5/28/2006	154.2	7/5/2006	58.2	8/12/2006	34.3	9/19/2006	14.15		
5/29/2006	106.7	7/6/2006	61.6	8/13/2006	42.9	9/20/2006	17.70		
5/30/2006	85.1	7/7/2006	58.7	8/14/2006	35.8	9/21/2006	20.91		
5/31/2006	63.0	7/8/2006	61.8	8/15/2006	32.6	9/22/2006	22.22		
6/1/2006	56.6	7/9/2006	60.1	8/16/2006	30.8	9/23/2006	22.19		
6/2/2006	52.4	7/10/2006	56.5	8/17/2006	37.9	9/24/2006	20.81		
6/3/2006	92.8	7/11/2006	56.7	8/18/2006	44.0	9/25/2006	19.89		
6/4/2006	175.4	7/12/2006	58.2	8/19/2006	33.7	9/26/2006	19.13		
6/5/2006	235.6	7/13/2006	61.3	8/20/2006	23.8	9/27/2006	17.82		
6/6/2006	199.9	7/14/2006	54.2	8/21/2006	18.7	9/28/2006	17.79		
6/7/2006	180.0	7/15/2006	48.2	8/22/2006	18.8	9/29/2006	16.09		
6/8/2006	209.3	7/16/2006	44.5	8/23/2006	16.4	9/30/2006	15.33		
6/9/2006	256.2	7/17/2006	42.6	8/24/2006	16.0	10/1/2006	14.33		
6/10/2006	579.8	7/18/2006	41.0	8/25/2006	14.9	10/2/2006	13.86		
6/11/2006	505.9	7/19/2006	39.7	8/26/2006	16.6	10/3/2006	22.10		
6/12/2006	382.6	7/20/2006	36.8	8/27/2006	17.2	10/4/2006	22.59		
6/13/2006	367.3	7/21/2006	30.3	8/28/2006	15.8	10/5/2006	23.35		
6/14/2006	363.9	7/22/2006	26.2	8/29/2006	12.6	10/6/2006	24.09		
6/15/2006	344.4	7/23/2006	21.7	8/30/2006	10.4	10/7/2006	43.24		

Daily Average Flow (CFS)		Sweet Grass Creek Below Glasston Diversion 2006							
Date	Daily Average Flow (CFS)								
5/9/2006	37.3	6/16/2006	452.5	7/24/2006	10.1	8/31/2006	8.2	10/8/2006	14.8
5/10/2006	42.6	6/17/2006	364.2	7/25/2006	10.5	9/1/2006	8.6	10/9/2006	14.1
5/11/2006	38.6	6/18/2006	307.7	7/26/2006	6.3	9/2/2006	8.4	10/10/2006	12.0
5/12/2006	32.7	6/19/2006	258.2	7/27/2006	4.8	9/3/2006	7.9	10/11/2006	8.0
5/13/2006	35.4	6/20/2006	225.6	7/28/2006	4.0	9/4/2006	7.3	10/12/2006	5.8
5/14/2006	30.7	6/21/2006	176.6	7/29/2006	7.0	9/5/2006	6.8	10/13/2006	4.5
5/15/2006	32.4	6/22/2006	156.4	7/30/2006	10.5	9/6/2006	6.9	10/14/2006	2.8
5/16/2006	137.9	6/23/2006	120.5	7/31/2006	20.8	9/7/2006	6.9	10/15/2006	2.7
5/17/2006	314.3	6/24/2006	90.7	8/1/2006	31.9	9/8/2006	6.9	10/16/2006	15.9
5/18/2006	364.6	6/25/2006	68.0	8/2/2006	37.2	9/9/2006	7.0	10/17/2006	21.9
5/19/2006	447.1	6/26/2006	55.4	8/3/2006	46.7	9/10/2006	6.9	10/18/2006	17.2
5/20/2006	488.7	6/27/2006	40.9	8/4/2006	42.6	9/11/2006	6.4	10/19/2006	19.1
5/21/2006	546.6	6/28/2006	45.5	8/5/2006	40.2	9/12/2006	6.5	10/20/2006	28.6
5/22/2006	397.1	6/29/2006	32.3	8/6/2006	35.7	9/13/2006	6.2	10/21/2006	26.4
5/23/2006	230.3	6/30/2006	29.9	8/7/2006	32.4	9/14/2006	6.3	10/22/2006	21.3
5/24/2006	201.1	7/1/2006	36.3	8/8/2006	32.6	9/15/2006	10.2	10/23/2006	20.4
5/25/2006	143.5	7/2/2006	38.2	8/9/2006	33.7	9/16/2006	20.0		
5/26/2006	137.6	7/3/2006	42.7	8/10/2006	33.1	9/17/2006	17.0		
5/27/2006	145.7	7/4/2006	52.4	8/11/2006	23.2	9/18/2006	15.0		
5/28/2006	122.5	7/5/2006	51.3	8/12/2006	26.4	9/19/2006	13.4		
5/29/2006	57.2	7/6/2006	56.5	8/13/2006	36.0	9/20/2006	16.8		
5/30/2006	34.4	7/7/2006	51.5	8/14/2006	28.6	9/21/2006	19.0		
5/31/2006	14.8	7/8/2006	55.8	8/15/2006	25.2	9/22/2006	19.8		
6/1/2006	9.4	7/9/2006	53.1	8/16/2006	24.8	9/23/2006	19.6		
6/2/2006	11.4	7/10/2006	47.4	8/17/2006	32.6	9/24/2006	18.1		
6/3/2006	95.6	7/11/2006	45.7	8/18/2006	39.1	9/25/2006	17.1		
6/4/2006	263.5	7/12/2006	47.9	8/19/2006	28.3	9/26/2006	16.5		
6/5/2006	376.2	7/13/2006	51.7	8/20/2006	19.2	9/27/2006	16.5		
6/6/2006	242.0	7/14/2006	40.7	8/21/2006	15.0	9/28/2006	16.7		
6/7/2006	200.5	7/15/2006	33.7	8/22/2006	15.2	9/29/2006	15.0		
6/8/2006	266.7	7/16/2006	29.4	8/23/2006	13.0	9/30/2006	14.8		
6/9/2006	381.6	7/17/2006	27.4	8/24/2006	12.6	10/1/2006	14.2		
6/10/2006	988.8	7/18/2006	26.5	8/25/2006	11.8	10/2/2006	13.8		
6/11/2006	829.1	7/19/2006	32.9	8/26/2006	13.7	10/3/2006	16.8		
6/12/2006	617.6	7/20/2006	25.8	8/27/2006	14.1	10/4/2006	6.4		
6/13/2006	602.9	7/21/2006	17.9	8/28/2006	12.4	10/5/2006	6.5		
6/14/2006	604.7	7/22/2006	14.3	8/29/2006	10.3	10/6/2006	5.7		
6/15/2006	564.8	7/23/2006	10.4	8/30/2006	9.0	10/7/2006	21.7		

**Sweet Grass Creek at Rapalje Bridge 2006**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
5/9/2006	47.6	6/16/2006	--	7/24/2006	19.2	8/31/2006	9.3	10/8/2006	29.1
5/10/2006	43.3	6/17/2009	--	7/25/2006	19.1	9/1/2006	9.5	10/9/2006	21.8
5/11/2006	43.7	6/18/2009	--	7/26/2006	17.5	9/2/2006	9.7	10/10/2006	21.3
5/12/2006	39.3	6/19/2009	--	7/27/2006	13.5	9/3/2006	9.5	10/11/2006	18.0
5/13/2006	35.0	6/20/2009	--	7/28/2006	10.8	9/4/2006	9.0	10/12/2006	14.3
5/14/2006	34.7	6/21/2009	--	7/29/2006	9.7	9/5/2006	8.6	10/13/2006	12.2
5/15/2006	31.6	6/22/2009	--	7/30/2006	11.1	9/6/2006	8.3	10/14/2006	11.3
5/16/2006	51.3	6/23/2009	--	7/31/2006	13.8	9/7/2006	8.4	10/15/2006	10.0
5/17/2006	211.3	6/24/2009	--	8/1/2006	24.4	9/8/2006	8.1	10/16/2006	18.2
5/18/2006	285.5	6/25/2009	--	8/2/2006	35.0	9/9/2006	8.2	10/17/2006	36.5
5/19/2006	324.4	6/26/2009	--	8/3/2006	38.8	9/10/2006	8.3	10/18/2006	28.1
5/20/2006	375.5	6/27/2009	--	8/4/2006	43.3	9/11/2006	8.2	10/19/2006	24.9
5/21/2006	413.3	6/28/2009	--	8/5/2006	40.5	9/12/2006	7.9	10/20/2006	29.1
5/22/2006	350.5	6/29/2009	--	8/6/2006	38.0	9/13/2006	7.8	10/21/2006	34.6
5/23/2006	227.2	6/30/2009	--	8/7/2006	34.2	9/14/2006	7.5	10/22/2006	30.5
5/24/2006	194.7	7/1/2009	--	8/8/2006	32.9	9/15/2006	9.4	10/23/2006	26.8
5/25/2006	141.2	7/2/2009	--	8/9/2006	33.1	9/16/2006	20.1		
5/26/2006	127.5	7/3/2009	--	8/10/2006	33.1	9/17/2006	23.4		
5/27/2006	134.4	7/4/2009	--	8/11/2006	30.3	9/18/2006	20.7		
5/28/2006	142.0	7/5/2009	--	8/12/2006	25.0	9/19/2006	17.6		
5/29/2006	78.2	7/6/2009	--	8/13/2006	33.4	9/20/2006	16.3		
5/30/2006	47.5	7/7/2009	--	8/14/2006	33.0	9/21/2006	20.4		
5/31/2006	29.8	7/8/2009	--	8/15/2006	27.7	9/22/2006	21.3		
6/1/2006	19.8	7/9/2009	--	8/16/2006	26.9	9/23/2006	22.8		
6/2/2006	--	7/10/2009	--	8/17/2006	34.6	9/24/2006	21.7		
6/3/2006	--	7/11/2009	--	8/18/2006	40.2	9/25/2006	20.5		
6/4/2006	--	7/12/2009	--	8/19/2006	36.2	9/26/2006	19.2		
6/5/2006	--	7/13/2009	--	8/20/2006	27.5	9/27/2006	18.6		
6/6/2006	--	7/14/2009	--	8/21/2006	20.1	9/28/2006	18.6		
6/7/2006	--	7/15/2009	--	8/22/2006	16.8	9/29/2006	17.9		
6/8/2006	--	7/16/2009	--	8/23/2006	15.7	9/30/2006	16.6		
6/9/2006	--	7/17/2009	--	8/24/2006	14.5	10/1/2006	16.1		
6/10/2006	--	7/18/2009	--	8/25/2006	13.9	10/2/2006	15.9		
6/11/2006	--	7/19/2006	42.9	8/26/2006	13.8	10/3/2006	18.8		
6/12/2006	--	7/20/2006	38.9	8/27/2006	14.4	10/4/2006	19.2		
6/13/2006	--	7/21/2006	31.7	8/28/2006	14.7	10/5/2006	12.0		
6/14/2006	--	7/22/2006	27.0	8/29/2006	12.4	10/6/2006	11.4		
6/15/2006	--	7/23/2006	23.2	8/30/2006	10.5	10/7/2006	19.0		



**Sweet Grass Creek at Agnew Bridge 2006**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
5/9/2006	48.2	6/16/2006	370.7	7/24/2006	9.0	8/31/2006	4.4	10/8/2006	22.7
5/10/2006	44.9	6/17/2006	282.3	7/25/2006	8.2	9/1/2006	5.1	10/9/2006	22.3
5/11/2006	45.4	6/18/2006	221.9	7/26/2006	8.6	9/2/2006	4.7	10/10/2006	19.1
5/12/2006	42.8	6/19/2006	188.0	7/27/2006	7.2	9/3/2006	3.9	10/11/2006	18.3
5/13/2006	38.5	6/20/2006	169.3	7/28/2006	--	9/4/2006	--	10/12/2006	14.1
5/14/2006	38.0	6/21/2006	136.9	7/29/2006	--	9/5/2006	--	10/13/2006	11.8
5/15/2006	34.8	6/22/2006	115.4	7/30/2006	7.2	9/6/2006	--	10/14/2006	10.4
5/16/2006	34.8	6/23/2006	96.9	7/31/2006	14.0	9/7/2006	--	10/15/2006	9.5
5/17/2006	143.8	6/24/2006	73.6	8/1/2006	19.7	9/8/2006	--	10/16/2006	14.8
5/18/2006	234.7	6/25/2006	58.1	8/2/2006	28.8	9/9/2006	--	10/17/2006	26.2
5/19/2006	266.3	6/26/2006	50.8	8/3/2006	31.1	9/10/2006	--	10/18/2006	26.1
5/20/2006	339.9	6/27/2006	41.7	8/4/2006	29.6	9/11/2006	--	10/19/2006	22.0
5/21/2006	378.2	6/28/2006	34.8	8/5/2006	29.8	9/12/2006	--	10/20/2006	22.6
5/22/2006	319.2	6/29/2006	34.4	8/6/2006	28.4	9/13/2006	--	10/21/2006	26.6
5/23/2006	203.3	6/30/2006	31.1	8/7/2006	24.6	9/14/2006	--	10/22/2006	26.2
5/24/2006	148.2	7/1/2006	25.4	8/8/2006	21.0	9/15/2006	2.2	10/23/2006	23.6
5/25/2006	106.1	7/2/2006	24.7	8/9/2006	21.0	9/16/2006	8.3		
5/26/2006	86.7	7/3/2006	27.4	8/10/2006	21.2	9/17/2006	13.7		
5/27/2006	96.3	7/4/2006	39.5	8/11/2006	21.0	9/18/2006	14.2		
5/28/2006	104.5	7/5/2006	39.5	8/12/2006	17.2	9/19/2006	13.4		
5/29/2006	62.9	7/6/2006	37.8	8/13/2006	18.3	9/20/2006	11.7		
5/30/2006	34.7	7/7/2006	37.5	8/14/2006	23.0	9/21/2006	12.5		
5/31/2006	19.6	7/8/2006	33.6	8/15/2006	21.1	9/22/2006	13.8		
6/1/2006	9.9	7/9/2006	34.2	8/16/2006	20.9	9/23/2006	14.1		
6/2/2006	--	7/10/2006	32.6	8/17/2006	22.9	9/24/2006	14.7		
6/3/2006	--	7/11/2006	29.7	8/18/2006	34.1	9/25/2006	16.1		
6/4/2006	75.9	7/12/2006	31.5	8/19/2006	29.3	9/26/2006	18.0		
6/5/2006	183.8	7/13/2006	37.0	8/20/2006	23.4	9/27/2006	17.3		
6/6/2006	190.7	7/14/2006	36.2	8/21/2006	17.4	9/28/2006	17.9		
6/7/2006	129.8	7/15/2006	29.5	8/22/2006	12.5	9/29/2006	18.1		
6/8/2006	125.2	7/16/2006	25.8	8/23/2006	10.8	9/30/2006	17.0		
6/9/2006	222.6	7/17/2006	20.9	8/24/2006	9.9	10/1/2006	12.7		
6/10/2006	276.9	7/18/2006	17.3	8/25/2006	9.1	10/2/2006	12.6		
6/11/2006	--	7/19/2006	17.1	8/26/2006	9.1	10/3/2006	14.8		
6/12/2006	--	7/20/2006	19.3	8/27/2006	9.2	10/4/2006	18.3		
6/13/2006	470.1	7/21/2006	16.2	8/28/2006	9.4	10/5/2006	13.0		
6/14/2006	472.8	7/22/2006	12.8	8/29/2006	7.5	10/6/2006	12.5		
6/15/2006	436.4	7/23/2006	10.6	8/30/2006	5.7	10/7/2006	16.0		

Daily Average Flow (CFS)		Sweet Grass Creek at Vermillion Bridge 2006							
Date	Daily Average Flow (CFS)								
5/9/2006	--	6/16/2006	294.4	7/24/2006	1.9	8/31/2006	0.5	10/8/2006	20.9
5/10/2006	38.5	6/17/2006	231.0	7/25/2006	1.6	9/1/2006	0.5	10/9/2006	23.9
5/11/2006	38.2	6/18/2006	187.9	7/26/2006	1.3	9/2/2006	0.5	10/10/2006	20.3
5/12/2006	36.8	6/19/2006	170.0	7/27/2006	1.2	9/3/2006	0.6	10/11/2006	19.8
5/13/2006	33.0	6/20/2006	150.5	7/28/2006	1.2	9/4/2006	0.6	10/12/2006	16.9
5/14/2006	31.5	6/21/2006	125.8	7/29/2006	1.1	9/5/2006	0.7	10/13/2006	14.7
5/15/2006	30.0	6/22/2006	107.5	7/30/2006	1.0	9/6/2006	0.7	10/14/2006	13.3
5/16/2006	29.5	6/23/2006	93.9	7/31/2006	1.2	9/7/2006	0.9	10/15/2006	12.6
5/17/2006	89.5	6/24/2006	75.0	8/1/2006	1.5	9/8/2006	0.8	10/16/2006	18.2
5/18/2006	167.9	6/25/2006	59.7	8/2/2006	2.3	9/9/2006	0.9	10/17/2006	28.3
5/19/2006	187.1	6/26/2006	51.6	8/3/2006	3.5	9/10/2006	0.8	10/18/2006	31.0
5/20/2006	244.3	6/27/2006	43.6	8/4/2006	3.1	9/11/2006	0.7	10/19/2006	25.7
5/21/2006	277.3	6/28/2006	35.4	8/5/2006	4.2	9/12/2006	0.7	10/20/2006	25.6
5/22/2006	252.1	6/29/2006	30.7	8/6/2006	3.2	9/13/2006	0.7	10/21/2006	29.1
5/23/2006	168.6	6/30/2006	26.0	8/7/2006	2.0	9/14/2006	0.7	10/22/2006	29.9
5/24/2006	103.9	7/1/2006	24.2	8/8/2006	1.3	9/15/2006	1.1	10/23/2006	27.0
5/25/2006	71.9	7/2/2006	22.7	8/9/2006	2.5	9/16/2006	4.1		
5/26/2006	53.4	7/3/2006	27.7	8/10/2006	3.6	9/17/2006	7.0		
5/27/2006	70.6	7/4/2006	35.7	8/11/2006	3.0	9/18/2006	8.5		
5/28/2006	79.1	7/5/2006	36.3	8/12/2006	2.9	9/19/2006	9.8		
5/29/2006	51.6	7/6/2006	32.2	8/13/2006	2.4	9/20/2006	8.8		
5/30/2006	25.4	7/7/2006	30.8	8/14/2006	4.3	9/21/2006	8.5		
5/31/2006	14.8	7/8/2006	28.3	8/15/2006	3.9	9/22/2006	9.6		
6/1/2006	8.1	7/9/2006	28.9	8/16/2006	3.2	9/23/2006	10.1		
6/2/2006	2.7	7/10/2006	25.6	8/17/2006	2.5	9/24/2006	11.2		
6/3/2006	1.7	7/11/2006	21.9	8/18/2006	13.9	9/25/2006	12.3		
6/4/2006	26.8	7/12/2006	22.8	8/19/2006	10.0	9/26/2006	14.7		
6/5/2006	118.2	7/13/2006	30.4	8/20/2006	6.6	9/27/2006	13.3		
6/6/2006	146.8	7/14/2006	31.9	8/21/2006	3.5	9/28/2006	14.2		
6/7/2006	96.7	7/15/2006	24.1	8/22/2006	1.3	9/29/2006	14.5		
6/8/2006	85.2	7/16/2006	20.6	8/23/2006	0.6	9/30/2006	14.0		
6/9/2006	151.1	7/17/2006	14.6	8/24/2006	0.6	10/1/2006	12.2		
6/10/2006	408.3	7/18/2006	7.6	8/25/2006	0.5	10/2/2006	12.4		
6/11/2006	1033.4	7/19/2006	5.4	8/26/2006	0.5	10/3/2006	13.9		
6/12/2006	541.4	7/20/2006	6.6	8/27/2006	0.5	10/4/2006	16.1		
6/13/2006	372.1	7/21/2006	2.8	8/28/2006	0.5	10/5/2006	14.5		
6/14/2006	371.5	7/22/2006	1.9	8/29/2006	0.6	10/6/2006	12.4		
6/15/2006	346.8	7/23/2006	1.8	8/30/2006	0.5	10/7/2006	15.8		

### Sweet Grass Creek at Tronrud Bridge 2007

Date	Daily Average Flow (CFS)								
4/27/2007	18.1	6/4/2007	390.0	7/12/2007	91.1	8/19/2007	39.5	9/26/2007	23.1
4/28/2007	18.5	6/5/2007	435.1	7/13/2007	88.4	8/20/2007	36.9	9/27/2007	22.9
4/29/2007	18.8	6/6/2007	494.2	7/14/2007	86.1	8/21/2007	35.6	9/28/2007	22.5
4/30/2007	19.1	6/7/2007	502.2	7/15/2007	83.2	8/22/2007	35.4	9/29/2007	22.5
5/1/2007	19.4	6/8/2007	330.7	7/16/2007	79.1	8/23/2007	35.1	9/30/2007	22.4
5/2/2007	20.8	6/9/2007	295.4	7/17/2007	77.3	8/24/2007	34.8	10/1/2007	21.8
5/3/2007	278.2	6/10/2007	323.7	7/18/2007	76.5	8/25/2007	33.4	10/2/2007	21.8
5/4/2007	238.7	6/11/2007	352.4	7/19/2007	74.6	8/26/2007	31.8	10/3/2007	21.9
5/5/2007	173.0	6/12/2007	334.2	7/20/2007	71.6	8/27/2007	31.3	10/4/2007	21.9
5/6/2007	141.6	6/13/2007	299.0	7/21/2007	68.2	8/28/2007	31.3	10/5/2007	24.1
5/7/2007	128.1	6/14/2007	310.8	7/22/2007	65.4	8/29/2007	30.8	10/6/2007	25.4
5/8/2007	124.0	6/15/2007	300.3	7/23/2007	66.6	8/30/2007	29.3	10/7/2007	24.0
5/9/2007	143.4	6/16/2007	269.8	7/24/2007	71.1	8/31/2007	32.4	10/8/2007	23.4
5/10/2007	307.2	6/17/2007	304.1	7/25/2007	71.7	9/1/2007	29.6	10/9/2007	22.5
5/11/2007	375.9	6/18/2007	260.3	7/26/2007	74.1	9/2/2007	28.8	10/10/2007	22.2
5/12/2007	373.9	6/19/2007	203.5	7/27/2007	70.6	9/3/2007	28.0	10/11/2007	22.1
5/13/2007	428.6	6/20/2007	189.7	7/28/2007	68.0	9/4/2007	27.9	10/12/2007	21.9
5/14/2007	449.9	6/21/2007	213.1	7/29/2007	64.7	9/5/2007	28.4	10/13/2007	21.8
5/15/2007	277.1	6/22/2007	230.5	7/30/2007	61.2	9/6/2007	28.4	10/14/2007	21.7
5/16/2007	234.3	6/23/2007	230.4	7/31/2007	58.7	9/7/2007	27.9	10/15/2007	21.6
5/17/2007	263.0	6/24/2007	221.2	8/1/2007	55.6	9/8/2007	27.8	10/16/2007	21.6
5/18/2007	319.9	6/25/2007	210.2	8/2/2007	54.8	9/9/2007	28.1	10/17/2007	22.0
5/19/2007	361.6	6/26/2007	182.8	8/3/2007	53.8	9/10/2007	27.6	10/18/2007	21.7
5/20/2007	368.8	6/27/2007	161.5	8/4/2007	52.0	9/11/2007	26.5	10/19/2007	22.0
5/21/2007	341.4	6/28/2007	149.0	8/5/2007	50.9	9/12/2007	25.6	10/20/2007	23.0
5/22/2007	262.8	6/29/2007	147.7	8/6/2007	52.7	9/13/2007	25.5	10/21/2007	22.2
5/23/2007	206.0	6/30/2007	145.3	8/7/2007	48.1	9/14/2007	25.3	10/22/2007	22.1
5/24/2007	170.2	7/1/2007	141.8	8/8/2007	46.1	9/15/2007	24.8	10/23/2007	21.9
5/25/2007	162.9	7/2/2007	139.1	8/9/2007	44.8	9/16/2007	24.2	10/24/2007	21.5
5/26/2007	148.9	7/3/2007	133.8	8/10/2007	44.2	9/17/2007	23.9		
5/27/2007	145.6	7/4/2007	127.5	8/11/2007	43.4	9/18/2007	24.0		
5/28/2007	301.9	7/5/2007	120.5	8/12/2007	42.1	9/19/2007	24.2		
5/29/2007	287.1	7/6/2007	113.5	8/13/2007	40.5	9/20/2007	24.2		
5/30/2007	240.8	7/7/2007	109.9	8/14/2007	40.1	9/21/2007	25.9		
5/31/2007	215.2	7/8/2007	107.5	8/15/2007	39.4	9/22/2007	24.0		
6/1/2007	192.8	7/9/2007	102.8	8/16/2007	38.9	9/23/2007	24.0		
6/2/2007	239.2	7/10/2007	99.2	8/17/2007	38.0	9/24/2007	23.8		
6/3/2007	328.0	7/11/2007	95.3	8/18/2007	38.9	9/25/2007	23.4		

Daily Average Flow (CFS)		Sweet Grass Creek at Otter Creek Bridge 2007							
Date	Daily Average Flow (CFS)								
4/27/2007	24.1	6/4/2007	209.0	7/12/2007	35.3	8/19/2007	17.5	9/26/2007	10.9
4/28/2007	24.6	6/5/2007	223.6	7/13/2007	31.7	8/20/2007	16.8	9/27/2007	10.8
4/29/2007	21.1	6/6/2007	318.7	7/14/2007	29.0	8/21/2007	13.2	9/28/2007	11.0
4/30/2007	18.9	6/7/2007	480.5	7/15/2007	26.7	8/22/2007	12.2	9/29/2007	11.6
5/1/2007	19.0	6/8/2007	311.1	7/16/2007	18.5	8/23/2007	13.3	9/30/2007	12.3
5/2/2007	19.0	6/9/2007	237.0	7/17/2007	13.9	8/24/2007	14.0	10/1/2007	12.9
5/3/2007	130.5	6/10/2007	226.3	7/18/2007	13.3	8/25/2007	13.4	10/2/2007	12.9
5/4/2007	202.5	6/11/2007	244.0	7/19/2007	8.2	8/26/2007	11.1	10/3/2007	17.9
5/5/2007	146.8	6/12/2007	237.5	7/20/2007	4.7	8/27/2007	9.8	10/4/2007	20.0
5/6/2007	120.3	6/13/2007	206.8	7/21/2007	2.3	8/28/2007	10.5	10/5/2007	28.8
5/7/2007	107.9	6/14/2007	192.7	7/22/2007	2.8	8/29/2007	11.0	10/6/2007	37.0
5/8/2007	101.9	6/15/2007	211.9	7/23/2007	2.2	8/30/2007	9.8	10/7/2007	38.1
5/9/2007	100.5	6/16/2007	171.0	7/24/2007	4.1	8/31/2007	8.7	10/8/2007	31.5
5/10/2007	186.8	6/17/2007	236.6	7/25/2007	12.1	9/1/2007	9.27	10/9/2007	28.7
5/11/2007	294.5	6/18/2007	210.8	7/26/2007	31.9	9/2/2007	8.17	10/10/2007	28.3
5/12/2007	257.3	6/19/2007	160.8	7/27/2007	47.5	9/3/2007	6.82	10/11/2007	27.9
5/13/2007	270.7	6/20/2007	129.9	7/28/2007	40.4	9/4/2007	5.63	10/12/2007	27.6
5/14/2007	325.1	6/21/2007	133.1	7/29/2007	37.1	9/5/2007	8.27	10/13/2007	27.3
5/15/2007	185.1	6/22/2007	141.1	7/30/2007	34.8	9/6/2007	9.79	10/14/2007	27.0
5/16/2007	113.3	6/23/2007	144.2	7/31/2007	34.0	9/7/2007	8.88	10/15/2007	26.6
5/17/2007	114.4	6/24/2007	132.8	8/1/2007	34.2	9/8/2007	7.51	10/16/2007	26.4
5/18/2007	148.5	6/25/2007	129.4	8/2/2007	34.2	9/9/2007	10.93	10/17/2007	27.8
5/19/2007	175.3	6/26/2007	112.7	8/3/2007	29.4	9/10/2007	11.32	10/18/2007	31.2
5/20/2007	196.6	6/27/2007	105.4	8/4/2007	24.6	9/11/2007	11.88	10/19/2007	31.3
5/21/2007	211.0	6/28/2007	85.3	8/5/2007	24.9	9/12/2007	11.98	10/20/2007	31.0
5/22/2007	164.0	6/29/2007	75.0	8/6/2007	35.2	9/13/2007	12.01	10/21/2007	30.6
5/23/2007	149.7	6/30/2007	70.5	8/7/2007	29.7	9/14/2007	14.21	10/22/2007	30.2
5/24/2007	102.0	7/1/2007	66.5	8/8/2007	27.0	9/15/2007	7.33	10/23/2007	29.7
5/25/2007	105.6	7/2/2007	63.2	8/9/2007	26.4	9/16/2007	4.78	10/24/2007	29.2
5/26/2007	91.5	7/3/2007	62.2	8/10/2007	27.2	9/17/2007	6.19		
5/27/2007	80.3	7/4/2007	54.6	8/11/2007	25.4	9/18/2007	5.89		
5/28/2007	130.2	7/5/2007	51.9	8/12/2007	21.2	9/19/2007	5.16		
5/29/2007	200.3	7/6/2007	51.1	8/13/2007	19.0	9/20/2007	7.77		
5/30/2007	183.5	7/7/2007	49.4	8/14/2007	18.4	9/21/2007	9.78		
5/31/2007	156.1	7/8/2007	67.8	8/15/2007	17.2	9/22/2007	8.29		
6/1/2007	132.5	7/9/2007	46.7	8/16/2007	16.1	9/23/2007	9.45		
6/2/2007	126.1	7/10/2007	40.7	8/17/2007	16.8	9/24/2007	10.45		
6/3/2007	153.2	7/11/2007	39.1	8/18/2007	16.2	9/25/2007	10.57		

Daily Average Flow (CFS)		Sweet Grass Creek Below Glasston Diversion 2007							
Date	Daily Average Flow (CFS)								
4/27/2007	12.5	6/4/2007	111.6	7/12/2007	23.0	8/19/2007	15.1	9/26/2007	10.4
4/28/2007	12.4	6/5/2007	121.2	7/13/2007	20.3	8/20/2007	14.6	9/27/2007	10.4
4/29/2007	10.0	6/6/2007	192.0	7/14/2007	18.6	8/21/2007	12.6	9/28/2007	10.4
4/30/2007	8.0	6/7/2007	305.3	7/15/2007	17.3	8/22/2007	11.9	9/29/2007	10.5
5/1/2007	8.1	6/8/2007	205.7	7/16/2007	12.2	8/23/2007	12.6	9/30/2007	11.1
5/2/2007	7.8	6/9/2007	153.7	7/17/2007	9.5	8/24/2007	12.9	10/1/2007	11.3
5/3/2007	85.3	6/10/2007	145.7	7/18/2007	9.3	8/25/2007	12.7	10/2/2007	11.4
5/4/2007	114.3	6/11/2007	154.8	7/19/2007	6.8	8/26/2007	11.3	10/3/2007	14.2
5/5/2007	76.5	6/12/2007	163.0	7/20/2007	4.7	8/27/2007	10.3	10/4/2007	15.7
5/6/2007	58.2	6/13/2007	155.3	7/21/2007	3.3	8/28/2007	10.4	10/5/2007	23.7
5/7/2007	49.8	6/14/2007	145.4	7/22/2007	3.7	8/29/2007	11.0	10/6/2007	30.5
5/8/2007	45.7	6/15/2007	158.5	7/23/2007	2.9	8/30/2007	10.3	10/7/2007	29.3
5/9/2007	44.6	6/16/2007	127.6	7/24/2007	3.1	8/31/2007	8.6	10/8/2007	24.3
5/10/2007	101.8	6/17/2007	181.0	7/25/2007	7.5	9/1/2007	9.2	10/9/2007	22.0
5/11/2007	182.9	6/18/2007	159.7	7/26/2007	22.0	9/2/2007	8.6	10/10/2007	21.5
5/12/2007	157.8	6/19/2007	119.8	7/27/2007	39.4	9/3/2007	8.1	10/11/2007	20.8
5/13/2007	163.2	6/20/2007	93.2	7/28/2007	35.2	9/4/2007	7.3	10/12/2007	20.4
5/14/2007	202.0	6/21/2007	104.2	7/29/2007	32.0	9/5/2007	8.6	10/13/2007	20.3
5/15/2007	109.8	6/22/2007	114.8	7/30/2007	29.7	9/6/2007	9.2	10/14/2007	20.2
5/16/2007	58.9	6/23/2007	117.3	7/31/2007	28.7	9/7/2007	9.0	10/15/2007	19.9
5/17/2007	58.4	6/24/2007	114.0	8/1/2007	27.3	9/8/2007	8.7	10/16/2007	18.9
5/18/2007	81.8	6/25/2007	115.1	8/2/2007	27.4	9/9/2007	9.9	10/17/2007	18.6
5/19/2007	101.4	6/26/2007	98.7	8/3/2007	24.1	9/10/2007	10.4	10/18/2007	20.1
5/20/2007	116.1	6/27/2007	87.9	8/4/2007	20.4	9/11/2007	10.7	10/19/2007	20.3
5/21/2007	126.3	6/28/2007	64.5	8/5/2007	20.5	9/12/2007	10.7	10/20/2007	19.9
5/22/2007	94.9	6/29/2007	53.4	8/6/2007	28.9	9/13/2007	10.7	10/21/2007	19.7
5/23/2007	85.3	6/30/2007	47.8	8/7/2007	24.6	9/14/2007	12.2	10/22/2007	19.4
5/24/2007	46.6	7/1/2007	42.5	8/8/2007	22.5	9/15/2007	8.6	10/23/2007	19.2
5/25/2007	45.9	7/2/2007	39.3	8/9/2007	22.0	9/16/2007	7.3	10/24/2007	19.0
5/26/2007	37.8	7/3/2007	41.1	8/10/2007	22.5	9/17/2007	7.7		
5/27/2007	31.3	7/4/2007	39.5	8/11/2007	21.2	9/18/2007	7.7		
5/28/2007	61.7	7/5/2007	37.5	8/12/2007	18.3	9/19/2007	7.3		
5/29/2007	106.0	7/6/2007	37.0	8/13/2007	16.3	9/20/2007	8.5		
5/30/2007	96.4	7/7/2007	35.6	8/14/2007	16.0	9/21/2007	9.6		
5/31/2007	79.1	7/8/2007	53.9	8/15/2007	15.2	9/22/2007	9.3		
6/1/2007	64.1	7/9/2007	32.9	8/16/2007	14.3	9/23/2007	9.8		
6/2/2007	59.9	7/10/2007	28.2	8/17/2007	14.7	9/24/2007	10.3		
6/3/2007	76.4	7/11/2007	26.4	8/18/2007	14.6	9/25/2007	10.5		

**Sweet Grass Creek at Rapalje Bridge 2007**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
4/27/2007	18.7	6/4/2007	137.5	7/12/2007	31.5	8/19/2007	16.0	9/26/2007	10.9
4/28/2007	16.6	6/5/2007	151.5	7/13/2007	27.9	8/20/2007	16.2	9/27/2007	10.6
4/29/2007	14.9	6/6/2007	231.8	7/14/2007	25.3	8/21/2007	14.5	9/28/2007	10.7
4/30/2007	12.1	6/7/2007	507.9	7/15/2007	24.0	8/22/2007	12.3	9/29/2007	11.2
5/1/2007	10.2	6/8/2007	370.5	7/16/2007	21.3	8/23/2007	12.2	9/30/2007	12.0
5/2/2007	9.9	6/9/2007	253.2	7/17/2007	16.7	8/24/2007	12.6	10/1/2007	12.2
5/3/2007	16.1	6/10/2007	214.7	7/18/2007	14.8	8/25/2007	12.8	10/2/2007	11.2
5/4/2007	136.9	6/11/2007	226.0	7/19/2007	13.3	8/26/2007	11.4	10/3/2007	11.7
5/5/2007	98.0	6/12/2007	228.5	7/20/2007	10.2	8/27/2007	9.8	10/4/2007	14.3
5/6/2007	71.5	6/13/2007	225.2	7/21/2007	8.2	8/28/2007	9.1	10/5/2007	19.7
5/7/2007	57.5	6/14/2007	199.6	7/22/2007	6.6	8/29/2007	10.0	10/6/2007	38.2
5/8/2007	50.9	6/15/2007	218.6	7/23/2007	5.9	8/30/2007	10.2	10/7/2007	39.3
5/9/2007	47.0	6/16/2007	190.5	7/24/2007	5.7	8/31/2007	8.9	10/8/2007	31.7
5/10/2007	70.3	6/17/2007	251.0	7/25/2007	6.1	9/1/2007	8.4	10/9/2007	26.5
5/11/2007	201.3	6/18/2007	268.6	7/26/2007	11.3	9/2/2007	8.0	10/10/2007	24.4
5/12/2007	196.0	6/19/2007	199.0	7/27/2007	31.4	9/3/2007	7.3	10/11/2007	23.6
5/13/2007	196.9	6/20/2007	152.8	7/28/2007	41.3	9/4/2007	6.7	10/12/2007	22.8
5/14/2007	255.2	6/21/2007	142.9	7/29/2007	36.6	9/5/2007	7.5	10/13/2007	22.5
5/15/2007	182.9	6/22/2007	158.3	7/30/2007	32.7	9/6/2007	10.0	10/14/2007	22.3
5/16/2007	98.5	6/23/2007	162.3	7/31/2007	30.3	9/7/2007	11.0	10/15/2007	22.1
5/17/2007	73.5	6/24/2007	154.4	8/1/2007	27.4	9/8/2007	10.4	10/16/2007	21.8
5/18/2007	87.2	6/25/2007	161.4	8/2/2007	28.5	9/9/2007	10.3	10/17/2007	21.6
5/19/2007	122.8	6/26/2007	139.3	8/3/2007	28.1	9/10/2007	11.5	10/18/2007	21.7
5/20/2007	141.8	6/27/2007	129.4	8/4/2007	21.1	9/11/2007	11.7	10/19/2007	22.0
5/21/2007	162.6	6/28/2007	103.0	8/5/2007	14.8	9/12/2007	11.0	10/20/2007	21.9
5/22/2007	149.3	6/29/2007	81.8	8/6/2007	22.9	9/13/2007	10.5	10/21/2007	21.6
5/23/2007	140.6	6/30/2007	71.8	8/7/2007	32.9	9/14/2007	10.5	10/22/2007	21.1
5/24/2007	88.9	7/1/2007	62.4	8/8/2007	20.9	9/15/2007	11.9	10/23/2007	20.7
5/25/2007	76.7	7/2/2007	55.2	8/9/2007	18.7	9/16/2007	8.8	10/24/2007	20.4
5/26/2007	67.4	7/3/2007	52.1	8/10/2007	21.3	9/17/2007	7.0		
5/27/2007	51.0	7/4/2007	52.9	8/11/2007	22.2	9/18/2007	9.7		
5/28/2007	49.9	7/5/2007	48.6	8/12/2007	20.3	9/19/2007	8.9		
5/29/2007	127.5	7/6/2007	45.6	8/13/2007	17.1	9/20/2007	8.9		
5/30/2007	146.6	7/7/2007	43.5	8/14/2007	15.2	9/21/2007	11.1		
5/31/2007	115.2	7/8/2007	58.7	8/15/2007	15.2	9/22/2007	10.6		
6/1/2007	99.6	7/9/2007	55.4	8/16/2007	14.3	9/23/2007	10.1		
6/2/2007	80.9	7/10/2007	38.9	8/17/2007	14.1	9/24/2007	11.8		
6/3/2007	88.7	7/11/2007	35.4	8/18/2007	14.5	9/25/2007	11.3		

**Sweet Grass Creek at Agnew Bridge 2007**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
4/27/2007	16.0	6/4/2007	90.8	7/12/2007	18.1	8/19/2007	11.4	9/26/2007	7.0
4/28/2007	15.3	6/5/2007	118.4	7/13/2007	14.5	8/20/2007	11.4	9/27/2007	7.0
4/29/2007	13.7	6/6/2007	179.1	7/14/2007	13.1	8/21/2007	11.0	9/28/2007	7.0
4/30/2007	12.6	6/7/2007	373.8	7/15/2007	13.1	8/22/2007	10.0	9/29/2007	6.9
5/1/2007	10.7	6/8/2007	356.6	7/16/2007	11.7	8/23/2007	9.3	9/30/2007	5.7
5/2/2007	9.8	6/9/2007	241.0	7/17/2007	10.3	8/24/2007	8.8	10/1/2007	7.7
5/3/2007	9.6	6/10/2007	196.4	7/18/2007	8.9	8/25/2007	9.1	10/2/2007	11.4
5/4/2007	85.8	6/11/2007	200.5	7/19/2007	7.9	8/26/2007	9.0	10/3/2007	11.3
5/5/2007	87.0	6/12/2007	202.7	7/20/2007	6.6	8/27/2007	8.2	10/4/2007	11.8
5/6/2007	63.6	6/13/2007	204.6	7/21/2007	5.9	8/28/2007	7.4	10/5/2007	15.1
5/7/2007	49.2	6/14/2007	186.1	7/22/2007	5.9	8/29/2007	6.8	10/6/2007	24.8
5/8/2007	42.7	6/15/2007	197.4	7/23/2007	4.9	8/30/2007	6.8	10/7/2007	32.4
5/9/2007	38.3	6/16/2007	183.5	7/24/2007	5.1	8/31/2007	5.5	10/8/2007	31.4
5/10/2007	38.0	6/17/2007	199.2	7/25/2007	5.7	9/1/2007	5.0	10/9/2007	27.0
5/11/2007	136.3	6/18/2007	263.8	7/26/2007	15.2	9/2/2007	5.3	10/10/2007	24.2
5/12/2007	168.0	6/19/2007	203.4	7/27/2007	21.1	9/3/2007	5.2	10/11/2007	23.0
5/13/2007	141.5	6/20/2007	147.6	7/28/2007	31.1	9/4/2007	5.3	10/12/2007	22.1
5/14/2007	175.4	6/21/2007	122.4	7/29/2007	31.0	9/5/2007	5.7	10/13/2007	21.7
5/15/2007	173.4	6/22/2007	129.4	7/30/2007	27.6	9/6/2007	5.5	10/14/2007	21.4
5/16/2007	86.3	6/23/2007	134.3	7/31/2007	22.9	9/7/2007	6.6	10/15/2007	21.1
5/17/2007	50.9	6/24/2007	134.3	8/1/2007	21.7	9/8/2007	7.4	10/16/2007	21.1
5/18/2007	46.7	6/25/2007	132.3	8/2/2007	21.5	9/9/2007	7.1	10/17/2007	21.3
5/19/2007	68.9	6/26/2007	125.3	8/3/2007	22.4	9/10/2007	7.3	10/18/2007	21.5
5/20/2007	90.4	6/27/2007	111.5	8/4/2007	20.7	9/11/2007	7.9	10/19/2007	21.3
5/21/2007	105.5	6/28/2007	96.2	8/5/2007	17.9	9/12/2007	8.2	10/20/2007	21.4
5/22/2007	113.6	6/29/2007	71.2	8/6/2007	19.1	9/13/2007	7.7	10/21/2007	21.2
5/23/2007	102.2	6/30/2007	43.7	8/7/2007	22.8	9/14/2007	7.5	10/22/2007	21.2
5/24/2007	71.9	7/1/2007	37.1	8/8/2007	20.7	9/15/2007	7.7	10/23/2007	19.3
5/25/2007	53.1	7/2/2007	32.0	8/9/2007	18.3	9/16/2007	7.8	10/24/2007	18.6
5/26/2007	45.5	7/3/2007	28.2	8/10/2007	17.2	9/17/2007	6.3		
5/27/2007	34.2	7/4/2007	27.7	8/11/2007	16.7	9/18/2007	6.1		
5/28/2007	28.0	7/5/2007	25.7	8/12/2007	16.6	9/19/2007	6.5		
5/29/2007	63.0	7/6/2007	24.4	8/13/2007	14.2	9/20/2007	6.3		
5/30/2007	99.9	7/7/2007	23.4	8/14/2007	12.0	9/21/2007	6.4		
5/31/2007	82.2	7/8/2007	23.1	8/15/2007	11.4	9/22/2007	6.9		
6/1/2007	70.0	7/9/2007	34.5	8/16/2007	11.0	9/23/2007	6.9		
6/2/2007	54.8	7/10/2007	23.5	8/17/2007	10.6	9/24/2007	6.8		
6/3/2007	81.1	7/11/2007	19.6	8/18/2007	10.7	9/25/2007	7.2		

**Sweet Grass Creek at Vermillion Bridge 2007**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
4/27/2007	18.8	6/4/2007	63.9	7/12/2007	7.2	8/19/2007	5.0	9/26/2007	11.1
4/28/2007	17.7	6/5/2007	95.1	7/13/2007	5.6	8/20/2007	4.8	9/27/2007	11.1
4/29/2007	16.0	6/6/2007	158.3	7/14/2007	4.8	8/21/2007	4.6	9/28/2007	10.3
4/30/2007	11.7	6/7/2007	424.6	7/15/2007	5.1	8/22/2007	4.3	9/29/2007	9.9
5/1/2007	7.3	6/8/2007	431.6	7/16/2007	4.2	8/23/2007	3.5	9/30/2007	9.2
5/2/2007	9.0	6/9/2007	265.2	7/17/2007	2.9	8/24/2007	3.9	10/1/2007	8.5
5/3/2007	10.7	6/10/2007	207.3	7/18/2007	2.7	8/25/2007	5.8	10/2/2007	10.1
5/4/2007	65.9	6/11/2007	205.9	7/19/2007	2.3	8/26/2007	7.1	10/3/2007	10.1
5/5/2007	91.8	6/12/2007	209.5	7/20/2007	2.2	8/27/2007	6.4	10/4/2007	10.4
5/6/2007	66.9	6/13/2007	216.8	7/21/2007	2.2	8/28/2007	5.7	10/5/2007	12.0
5/7/2007	52.5	6/14/2007	197.8	7/22/2007	2.2	8/29/2007	4.9	10/6/2007	24.8
5/8/2007	40.9	6/15/2007	213.0	7/23/2007	2.4	8/30/2007	4.8	10/7/2007	34.3
5/9/2007	33.4	6/16/2007	203.1	7/24/2007	2.7	8/31/2007	4.2	10/8/2007	32.7
5/10/2007	30.3	6/17/2007	226.9	7/25/2007	2.8	9/1/2007	3.4	10/9/2007	28.5
5/11/2007	106.6	6/18/2007	295.5	7/26/2007	3.6	9/2/2007	2.4	10/10/2007	25.6
5/12/2007	167.6	6/19/2007	218.2	7/27/2007	4.6	9/3/2007	1.0	10/11/2007	24.4
5/13/2007	139.1	6/20/2007	164.2	7/28/2007	8.0	9/4/2007	0.9	10/12/2007	23.8
5/14/2007	157.3	6/21/2007	142.0	7/29/2007	8.8	9/5/2007	0.9	10/13/2007	23.4
5/15/2007	145.2	6/22/2007	153.6	7/30/2007	7.9	9/6/2007	0.9	10/14/2007	23.1
5/16/2007	65.2	6/23/2007	155.8	7/31/2007	6.6	9/7/2007	0.8	10/15/2007	22.9
5/17/2007	46.3	6/24/2007	154.0	8/1/2007	5.6	9/8/2007	0.9	10/16/2007	22.8
5/18/2007	24.8	6/25/2007	154.0	8/2/2007	4.6	9/9/2007	1.2	10/17/2007	23.2
5/19/2007	30.2	6/26/2007	142.3	8/3/2007	5.6	9/10/2007	1.0	10/18/2007	23.1
5/20/2007	54.4	6/27/2007	121.0	8/4/2007	5.6	9/11/2007	0.9	10/19/2007	22.9
5/21/2007	68.7	6/28/2007	98.4	8/5/2007	4.7	9/12/2007	0.8	10/20/2007	23.1
5/22/2007	83.0	6/29/2007	64.6	8/6/2007	4.6	9/13/2007	0.8	10/21/2007	22.7
5/23/2007	77.6	6/30/2007	37.2	8/7/2007	5.5	9/14/2007	0.7	10/22/2007	22.6
5/24/2007	47.9	7/1/2007	35.7	8/8/2007	7.4	9/15/2007	0.7	10/23/2007	20.6
5/25/2007	36.7	7/2/2007	29.9	8/9/2007	8.3	9/16/2007	0.7	10/24/2007	20.4
5/26/2007	28.3	7/3/2007	21.9	8/10/2007	7.8	9/17/2007	1.2		
5/27/2007	19.4	7/4/2007	15.9	8/11/2007	7.5	9/18/2007	2.4		
5/28/2007	13.6	7/5/2007	10.9	8/12/2007	7.6	9/19/2007	2.7		
5/29/2007	38.1	7/6/2007	10.1	8/13/2007	6.7	9/20/2007	4.7		
5/30/2007	81.8	7/7/2007	9.0	8/14/2007	5.2	9/21/2007	5.1		
5/31/2007	70.3	7/8/2007	7.8	8/15/2007	4.6	9/22/2007	5.5		
6/1/2007	61.2	7/9/2007	15.3	8/16/2007	4.7	9/23/2007	8.2		
6/2/2007	45.1	7/10/2007	9.4	8/17/2007	4.9	9/24/2007	10.0		
6/3/2007	47.3	7/11/2007	8.1	8/18/2007	5.0	9/25/2007	10.9		



Daily Average Flow (CFS)		Sweet Grass Creek at Tronrud Bridge 2008							
Date	Daily Average Flow (CFS)								
4/29/2008	9.4	6/6/2008	--	7/14/2008	200.9	8/21/2008	55.2	9/28/2008	31.2
4/30/2008	9.8	6/7/2008	--	7/15/2008	204.2	8/22/2008	53.9	9/29/2008	30.8
5/1/2008	9.3	6/8/2008	--	7/16/2008	185.9	8/23/2008	52.4	9/30/2008	30.5
5/2/2008	9.3	6/9/2008	--	7/17/2008	189.2	8/24/2008	50.6	10/1/2008	30.1
5/3/2008	9.3	6/10/2008	--	7/18/2008	192.2	8/25/2008	48.9	10/2/2008	30.0
5/4/2008	9.3	6/11/2008	194.3	7/19/2008	193.9	8/26/2008	47.7	10/3/2008	29.8
5/5/2008	9.4	6/12/2008	184.9	7/20/2008	175.8	8/27/2008	47.1	10/4/2008	29.6
5/6/2008	9.6	6/13/2008	170.7	7/21/2008	160.9	8/28/2008	45.9	10/5/2008	29.2
5/7/2008	11.8	6/14/2008	168.5	7/22/2008	168.5	8/29/2008	45.3	10/6/2008	28.8
5/8/2008	11.4	6/15/2008	217.8	7/23/2008	185.8	8/30/2008	46.0	10/7/2008	28.7
5/9/2008	10.6	6/16/2008	299.2	7/24/2008	173.4	8/31/2008	46.4	10/8/2008	28.3
5/10/2008	10.7	6/17/2008	433.9	7/25/2008	162.5	9/1/2008	48.6	10/9/2008	28.2
5/11/2008	10.4	6/18/2008	557.0	7/26/2008	153.1	9/2/2008	45.5	10/10/2008	30.6
5/12/2008	10.2	6/19/2008	556.4	7/27/2008	146.2	9/3/2008	43.8	10/11/2008	31.2
5/13/2008	10.1	6/20/2008	524.2	7/28/2008	139.1	9/4/2008	43.8	10/12/2008	31.2
5/14/2008	10.1	6/21/2008	536.4	7/29/2008	133.6	9/5/2008	43.0	10/13/2008	31.0
5/15/2008	10.2	6/22/2008	636.2	7/30/2008	129.6	9/6/2008	42.3	10/14/2008	36.8
5/16/2008	10.1	6/23/2008	674.2	7/31/2008	129.5	9/7/2008	45.5	10/15/2008	35.3
5/17/2008	10.2	6/24/2008	594.0	8/1/2008	123.3	9/8/2008	42.2		
5/18/2008	10.1	6/25/2008	561.4	8/2/2008	119.4	9/9/2008	40.3		
5/19/2008	10.4	6/26/2008	514.2	8/3/2008	--	9/10/2008	41.1		
5/20/2008	239.2	6/27/2008	442.5	8/4/2008	--	9/11/2008	48.2		
5/21/2008	401.9	6/28/2008	398.5	8/5/2008	--	9/12/2008	--		
5/22/2008	331.2	6/29/2008	414.1	8/6/2008	--	9/13/2008	--		
5/23/2008	313.5	6/30/2008	493.4	8/7/2008	--	9/14/2008	--		
5/24/2008	301.8	7/1/2008	555.6	8/8/2008	--	9/15/2008	--		
5/25/2008	273.0	7/2/2008	509.1	8/9/2008	--	9/16/2008	--		
5/26/2008	259.0	7/3/2008	417.6	8/10/2008	--	9/17/2008	--		
5/27/2008	237.4	7/4/2008	560.1	8/11/2008	82.0	9/18/2008	32.1		
5/28/2008	198.0	7/5/2008	541.2	8/12/2008	78.2	9/19/2008	32.7		
5/29/2008	222.1	7/6/2008	440.8	8/13/2008	73.6	9/20/2008	32.4		
5/30/2008	295.2	7/7/2008	374.0	8/14/2008	71.5	9/21/2008	32.2		
5/31/2008	--	7/8/2008	330.9	8/15/2008	72.2	9/22/2008	31.9		
6/1/2008	--	7/9/2008	307.1	8/16/2008	72.4	9/23/2008	32.2		
6/2/2008	--	7/10/2008	310.1	8/17/2008	69.0	9/24/2008	31.6		
6/3/2008	--	7/11/2008	309.7	8/18/2008	66.1	9/25/2008	31.0		
6/4/2008	--	7/12/2008	233.7	8/19/2008	63.5	9/26/2008	31.4		
6/5/2008	--	7/13/2008	202.3	8/20/2008	59.0	9/27/2008	31.7		

Daily Average Flow (CFS)		Sweet Grass Creek at Otter Creek Bridge 2008							
Date	Daily Average Flow (CFS)								
4/29/2008	8.9	6/6/2008	--	7/14/2008	132.2	8/21/2008	25.7	9/28/2008	26.0
4/30/2008	9.0	6/7/2008	--	7/15/2008	130.0	8/22/2008	24.7	9/29/2008	25.8
5/1/2008	9.0	6/8/2008	--	7/16/2008	121.2	8/23/2008	25.0	9/30/2008	26.3
5/2/2008	9.5	6/9/2008	--	7/17/2008	127.2	8/24/2008	23.9	10/1/2008	27.3
5/3/2008	9.5	6/10/2008	--	7/18/2008	124.3	8/25/2008	19.9	10/2/2008	26.8
5/4/2008	9.2	6/11/2008	174.4	7/19/2008	139.1	8/26/2008	17.9	10/3/2008	26.6
5/5/2008	9.1	6/12/2008	168.1	7/20/2008	120.6	8/27/2008	17.9	10/4/2008	27.0
5/6/2008	9.0	6/13/2008	153.9	7/21/2008	106.3	8/28/2008	19.1	10/5/2008	26.6
5/7/2008	11.0	6/14/2008	122.2	7/22/2008	102.7	8/29/2008	19.1	10/6/2008	25.3
5/8/2008	13.6	6/15/2008	113.8	7/23/2008	102.4	8/30/2008	20.4	10/7/2008	25.6
5/9/2008	12.0	6/16/2008	226.4	7/24/2008	90.3	8/31/2008	19.7	10/8/2008	25.2
5/10/2008	11.8	6/17/2008	368.8	7/25/2008	88.4	9/1/2008	24.1	10/9/2008	26.2
5/11/2008	10.8	6/18/2008	450.0	7/26/2008	80.7	9/2/2008	24.4	10/10/2008	30.1
5/12/2008	10.5	6/19/2008	--	7/27/2008	68.9	9/3/2008	24.94	10/11/2008	31.4
5/13/2008	10.3	6/20/2008	442.8	7/28/2008	62.2	9/4/2008	25.85	10/12/2008	38.4
5/14/2008	9.9	6/21/2008	442.7	7/29/2008	58.4	9/5/2008	26.35	10/13/2008	51.2
5/15/2008	9.7	6/22/2008	472.2	7/30/2008	41.8	9/6/2008	26.72	10/14/2008	58.4
5/16/2008	9.5	6/23/2008	--	7/31/2008	38.7	9/7/2008	32.49	10/15/2008	76.2
5/17/2008	9.0	6/24/2008	--	8/1/2008	37.4	9/8/2008	30.68		
5/18/2008	8.3	6/25/2008	--	8/2/2008	40.5	9/9/2008	28.03		
5/19/2008	7.9	6/26/2008	455.6	8/3/2008	43.0	9/10/2008	29.21		
5/20/2008	23.8	6/27/2008	404.8	8/4/2008	45.8	9/11/2008	52.48		
5/21/2008	321.5	6/28/2008	346.5	8/5/2008	42.6	9/12/2008	40.41		
5/22/2008	318.8	6/29/2008	334.1	8/6/2008	38.9	9/13/2008	34.96		
5/23/2008	483.9	6/30/2008	404.1	8/7/2008	33.2	9/14/2008	33.09		
5/24/2008	409.0	7/1/2008	468.7	8/8/2008	33.4	9/15/2008	31.14		
5/25/2008	335.5	7/2/2008	--	8/9/2008	34.6	9/16/2008	29.86		
5/26/2008	211.0	7/3/2008	445.9	8/10/2008	33.3	9/17/2008	28.74		
5/27/2008	245.0	7/4/2008	456.2	8/11/2008	32.3	9/18/2008	29.21		
5/28/2008	153.0	7/5/2008	--	8/12/2008	30.4	9/19/2008	27.77		
5/29/2008	131.8	7/6/2008	432.6	8/13/2008	31.0	9/20/2008	27.32		
5/30/2008	198.8	7/7/2008	411.9	8/14/2008	34.1	9/21/2008	26.43		
5/31/2008	--	7/8/2008	322.8	8/15/2008	36.0	9/22/2008	27.44		
6/1/2008	--	7/9/2008	280.2	8/16/2008	31.1	9/23/2008	27.85		
6/2/2008	--	7/10/2008	256.7	8/17/2008	28.6	9/24/2008	26.88		
6/3/2008	--	7/11/2008	266.9	8/18/2008	26.0	9/25/2008	26.35		
6/4/2008	--	7/12/2008	183.1	8/19/2008	23.7	9/26/2008	25.85		
6/5/2008	--	7/13/2008	143.6	8/20/2008	25.9	9/27/2008	26.16		

Daily Average Flow (CFS)		Sweet Grass Creek Below Glasston Diversion 2008							
Date	Daily Average Flow (CFS)								
4/29/2008	4.6	6/6/2008	--	7/14/2008	73.2	8/21/2008	--	9/28/2008	20.4
4/30/2008	4.6	6/7/2008	--	7/15/2008	55.5	8/22/2008	--	9/29/2008	20.0
5/1/2008	4.6	6/8/2008	--	7/16/2008	50.1	8/23/2008	--	9/30/2008	19.9
5/2/2008	5.0	6/9/2008	--	7/17/2008	53.2	8/24/2008	--	10/1/2008	19.7
5/3/2008	4.9	6/10/2008	--	7/18/2008	51.7	8/25/2008	--	10/2/2008	19.4
5/4/2008	4.8	6/11/2008	94.6	7/19/2008	59.1	8/26/2008	--	10/3/2008	19.1
5/5/2008	4.8	6/12/2008	88.9	7/20/2008	48.3	8/27/2008	--	10/4/2008	19.1
5/6/2008	4.6	6/13/2008	77.6	7/21/2008	38.9	8/28/2008	--	10/5/2008	18.6
5/7/2008	5.9	6/14/2008	64.3	7/22/2008	35.9	8/29/2008	--	10/6/2008	16.9
5/8/2008	8.0	6/15/2008	78.8	7/23/2008	36.0	8/30/2008	--	10/7/2008	17.0
5/9/2008	6.8	6/16/2008	119.1	7/24/2008	28.9	8/31/2008	--	10/8/2008	16.6
5/10/2008	6.8	6/17/2008	188.2	7/25/2008	28.2	9/1/2008	--	10/9/2008	17.3
5/11/2008	6.2	6/18/2008	253.2	7/26/2008	24.2	9/2/2008	--	10/10/2008	21.0
5/12/2008	5.8	6/19/2008	258.1	7/27/2008	18.2	9/3/2008	--	10/11/2008	23.3
5/13/2008	5.6	6/20/2008	259.3	7/28/2008	14.9	9/4/2008	--	10/12/2008	32.2
5/14/2008	5.3	6/21/2008	256.4	7/29/2008	32.9	9/5/2008	--	10/13/2008	49.7
5/15/2008	5.0	6/22/2008	267.2	7/30/2008	45.5	9/6/2008	--	10/14/2008	59.7
5/16/2008	4.9	6/23/2008	--	7/31/2008	41.6	9/7/2008	--	10/15/2008	81.5
5/17/2008	4.6	6/24/2008	--	8/1/2008	40.2	9/8/2008	--		
5/18/2008	--	6/25/2008	--	8/2/2008	43.6	9/9/2008	--		
5/19/2008	9.7	6/26/2008	273.6	8/3/2008	--	9/10/2008	--		
5/20/2008	28.9	6/27/2008	263.1	8/4/2008	--	9/11/2008	--		
5/21/2008	225.8	6/28/2008	225.3	8/5/2008	--	9/12/2008	--		
5/22/2008	212.0	6/29/2008	220.6	8/6/2008	--	9/13/2008	--		
5/23/2008	258.2	6/30/2008	253.0	8/7/2008	--	9/14/2008	--		
5/24/2008	204.5	7/1/2008	277.5	8/8/2008	--	9/15/2008	--		
5/25/2008	173.1	7/2/2008	--	8/9/2008	--	9/16/2008	--		
5/26/2008	114.8	7/3/2008	286.7	8/10/2008	--	9/17/2008	--		
5/27/2008	130.1	7/4/2008	280.7	8/11/2008	--	9/18/2008	21.0		
5/28/2008	89.8	7/5/2008	300.0	8/12/2008	--	9/19/2008	20.7		
5/29/2008	78.1	7/6/2008	262.6	8/13/2008	--	9/20/2008	20.9		
5/30/2008	110.1	7/7/2008	225.1	8/14/2008	--	9/21/2008	20.5		
5/31/2008	--	7/8/2008	193.6	8/15/2008	--	9/22/2008	22.1		
6/1/2008	--	7/9/2008	176.5	8/16/2008	--	9/23/2008	22.4		
6/2/2008	--	7/10/2008	165.3	8/17/2008	--	9/24/2008	22.4		
6/3/2008	--	7/11/2008	170.7	8/18/2008	--	9/25/2008	22.4		
6/4/2008	--	7/12/2008	126.1	8/19/2008	--	9/26/2008	22.0		
6/5/2008	--	7/13/2008	97.4	8/20/2008	--	9/27/2008	21.2		

**Sweet Grass Creek at Rapalje Bridge 2008**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
4/29/2008	5.7	6/6/2008	--	7/14/2008	39.2	8/21/2008	19.6	9/28/2008	19.2
4/30/2008	5.7	6/7/2008	--	7/15/2008	24.4	8/22/2008	20.6	9/29/2008	18.8
5/1/2008	5.7	6/8/2008	--	7/16/2008	22.1	8/23/2008	18.7	9/30/2008	19.0
5/2/2008	6.3	6/9/2008	--	7/17/2008	22.3	8/24/2008	18.5	10/1/2008	18.8
5/3/2008	6.3	6/10/2008	--	7/18/2008	21.8	8/25/2008	16.6	10/2/2008	18.6
5/4/2008	6.0	6/11/2008	--	7/19/2008	27.3	8/26/2008	13.2	10/3/2008	17.9
5/5/2008	5.7	6/12/2008	--	7/20/2008	23.6	8/27/2008	11.4	10/4/2008	18.1
5/6/2008	5.5	6/13/2008	--	7/21/2008	19.8	8/28/2008	11.1	10/5/2008	18.6
5/7/2008	6.1	6/14/2008	--	7/22/2008	16.1	8/29/2008	11.3	10/6/2008	17.5
5/8/2008	7.6	6/15/2008	--	7/23/2008	15.9	8/30/2008	11.5	10/7/2008	16.8
5/9/2008	8.6	6/16/2008	--	7/24/2008	13.0	8/31/2008	11.7	10/8/2008	16.6
5/10/2008	8.4	6/17/2008	--	7/25/2008	10.6	9/1/2008	16.3	10/9/2008	16.7
5/11/2008	7.5	6/18/2008	--	7/26/2008	9.3	9/2/2008	20.6	10/10/2008	20.8
5/12/2008	6.9	6/19/2008	--	7/27/2008	7.3	9/3/2008	18.7	10/11/2008	25.9
5/13/2008	6.8	6/20/2008	--	7/28/2008	5.3	9/4/2008	19.7	10/12/2008	25.3
5/14/2008	6.3	6/21/2008	--	7/29/2008	4.3	9/5/2008	23.6	10/13/2008	37.1
5/15/2008	6.0	6/22/2008	--	7/30/2008	12.6	9/6/2008	23.8	10/14/2008	48.9
5/16/2008	5.7	6/23/2008	--	7/31/2008	12.7	9/7/2008	32.1	10/15/2008	60.0
5/17/2008	5.3	6/24/2008	--	8/1/2008	11.4	9/8/2008	34.5		
5/18/2008	4.8	6/25/2008	--	8/2/2008	26.2	9/9/2008	28.0		
5/19/2008	4.3	6/26/2008	--	8/3/2008	41.6	9/10/2008	29.5		
5/20/2008	4.7	6/27/2008	291.7	8/4/2008	46.2	9/11/2008	56.1		
5/21/2008	134.0	6/28/2008	251.4	8/5/2008	48.3	9/12/2008	52.4		
5/22/2008	302.8	6/29/2008	236.7	8/6/2008	42.0	9/13/2008	40.2		
5/23/2008	428.5	6/30/2008	253.3	8/7/2008	37.2	9/14/2008	35.2		
5/24/2008	295.5	7/1/2008	355.2	8/8/2008	33.6	9/15/2008	29.4		
5/25/2008	275.0	7/2/2008	432.1	8/9/2008	36.5	9/16/2008	26.0		
5/26/2008	157.1	7/3/2008	352.9	8/10/2008	35.0	9/17/2008	23.9		
5/27/2008	164.6	7/4/2008	329.1	8/11/2008	31.9	9/18/2008	22.9		
5/28/2008	141.9	7/5/2008	393.7	8/12/2008	29.4	9/19/2008	22.1		
5/29/2008	108.4	7/6/2008	356.1	8/13/2008	27.6	9/20/2008	21.4		
5/30/2008	114.4	7/7/2008	271.9	8/14/2008	28.9	9/21/2008	20.4		
5/31/2008	--	7/8/2008	219.7	8/15/2008	33.9	9/22/2008	19.7		
6/1/2008	--	7/9/2008	194.7	8/16/2008	32.6	9/23/2008	21.0		
6/2/2008	--	7/10/2008	178.7	8/17/2008	26.7	9/24/2008	20.8		
6/3/2008	--	7/11/2008	174.8	8/18/2008	23.3	9/25/2008	20.3		
6/4/2008	--	7/12/2008	111.4	8/19/2008	19.7	9/26/2008	19.3		
6/5/2008	--	7/13/2008	49.8	8/20/2008	17.8	9/27/2008	19.0		

**Sweet Grass Creek at Agnew Bridge 2008**

<b>Date</b>	<b>Daily Average Flow (CFS)</b>								
4/29/2008	8.2	6/6/2008	--	7/14/2008	98.4	8/21/2008	11.5	9/28/2008	20.9
4/30/2008	8.7	6/7/2008	--	7/15/2008	73.4	8/22/2008	13.0	9/29/2008	20.9
5/1/2008	9.1	6/8/2008	--	7/16/2008	60.7	8/23/2008	12.6	9/30/2008	21.0
5/2/2008	9.6	6/9/2008	--	7/17/2008	55.4	8/24/2008	11.7	10/1/2008	21.0
5/3/2008	9.8	6/10/2008	--	7/18/2008	54.5	8/25/2008	11.5	10/2/2008	20.9
5/4/2008	10.1	6/11/2008	135.7	7/19/2008	57.1	8/26/2008	9.6	10/3/2008	20.4
5/5/2008	9.8	6/12/2008	129.7	7/20/2008	54.0	8/27/2008	8.0	10/4/2008	20.1
5/6/2008	9.7	6/13/2008	118.1	7/21/2008	46.7	8/28/2008	7.8	10/5/2008	20.9
5/7/2008	9.3	6/14/2008	105.5	7/22/2008	39.9	8/29/2008	7.3	10/6/2008	20.6
5/8/2008	11.0	6/15/2008	89.5	7/23/2008	36.1	8/30/2008	7.5	10/7/2008	20.0
5/9/2008	11.6	6/16/2008	101.7	7/24/2008	34.8	8/31/2008	7.2	10/8/2008	19.5
5/10/2008	13.5	6/17/2008	158.8	7/25/2008	26.8	9/1/2008	9.1	10/9/2008	19.6
5/11/2008	12.1	6/18/2008	251.2	7/26/2008	22.7	9/2/2008	13.0	10/10/2008	22.6
5/12/2008	11.2	6/19/2008	306.5	7/27/2008	17.4	9/3/2008	12.6	10/11/2008	27.0
5/13/2008	10.7	6/20/2008	304.7	7/28/2008	13.6	9/4/2008	12.1	10/12/2008	30.4
5/14/2008	10.0	6/21/2008	295.4	7/29/2008	11.8	9/5/2008	21.6	10/13/2008	31.9
5/15/2008	9.7	6/22/2008	289.2	7/30/2008	21.3	9/6/2008	39.1	10/14/2008	45.6
5/16/2008	9.6	6/23/2008	--	7/31/2008	28.1	9/7/2008	22.2	10/15/2008	51.5
5/17/2008	7.7	6/24/2008	--	8/1/2008	22.1	9/8/2008	26.1		
5/18/2008	5.5	6/25/2008	--	8/2/2008	22.0	9/9/2008	26.3		
5/19/2008	5.3	6/26/2008	--	8/3/2008	27.1	9/10/2008	29.5		
5/20/2008	4.7	6/27/2008	330.1	8/4/2008	29.4	9/11/2008	49.3		
5/21/2008	49.1	6/28/2008	262.4	8/5/2008	35.9	9/12/2008	60.9		
5/22/2008	248.6	6/29/2008	234.1	8/6/2008	31.9	9/13/2008	47.6		
5/23/2008	268.1	6/30/2008	243.1	8/7/2008	25.7	9/14/2008	40.1		
5/24/2008	297.5	7/1/2008	280.3	8/8/2008	22.7	9/15/2008	34.6		
5/25/2008	312.0	7/2/2008	--	8/9/2008	23.4	9/16/2008	29.2		
5/26/2008	178.7	7/3/2008	372.7	8/10/2008	23.5	9/17/2008	26.7		
5/27/2008	164.6	7/4/2008	335.3	8/11/2008	21.4	9/18/2008	24.8		
5/28/2008	161.9	7/5/2008	--	8/12/2008	19.1	9/19/2008	24.7		
5/29/2008	127.3	7/6/2008	378.8	8/13/2008	17.6	9/20/2008	24.2		
5/30/2008	122.9	7/7/2008	299.4	8/14/2008	17.1	9/21/2008	23.6		
5/31/2008	--	7/8/2008	227.5	8/15/2008	18.4	9/22/2008	22.2		
6/1/2008	--	7/9/2008	196.9	8/16/2008	21.1	9/23/2008	23.2		
6/2/2008	--	7/10/2008	178.1	8/17/2008	16.8	9/24/2008	23.4		
6/3/2008	--	7/11/2008	169.1	8/18/2008	14.4	9/25/2008	23.0		
6/4/2008	--	7/12/2008	155.6	8/19/2008	12.5	9/26/2008	22.3		
6/5/2008	--	7/13/2008	119.2	8/20/2008	11.5	9/27/2008	20.8		

Daily Average Flow (CFS)		Sweet Grass Creek at Vermillion Bridge 2008							
Date	Daily Average Flow (CFS)								
4/29/2008	7.2	6/6/2008	--	7/14/2008	88.0	8/21/2008	6.8	9/28/2008	20.7
4/30/2008	7.0	6/7/2008	--	7/15/2008	69.5	8/22/2008	8.2	9/29/2008	20.8
5/1/2008	7.1	6/8/2008	--	7/16/2008	55.3	8/23/2008	7.6	9/30/2008	20.9
5/2/2008	7.5	6/9/2008	--	7/17/2008	50.8	8/24/2008	7.2	10/1/2008	21.0
5/3/2008	7.8	6/10/2008	--	7/18/2008	50.3	8/25/2008	7.3	10/2/2008	20.6
5/4/2008	8.0	6/11/2008	121.2	7/19/2008	37.4	8/26/2008	6.8	10/3/2008	20.9
5/5/2008	6.3	6/12/2008	124.4	7/20/2008	29.7	8/27/2008	7.3	10/4/2008	21.0
5/6/2008	2.6	6/13/2008	109.4	7/21/2008	24.4	8/28/2008	7.8	10/5/2008	21.4
5/7/2008	2.1	6/14/2008	98.9	7/22/2008	19.7	8/29/2008	6.2	10/6/2008	20.7
5/8/2008	2.5	6/15/2008	78.4	7/23/2008	16.7	8/30/2008	4.4	10/7/2008	19.6
5/9/2008	3.0	6/16/2008	84.5	7/24/2008	16.5	8/31/2008	3.8	10/8/2008	19.1
5/10/2008	3.8	6/17/2008	134.3	7/25/2008	10.8	9/1/2008	3.3	10/9/2008	18.9
5/11/2008	6.2	6/18/2008	218.9	7/26/2008	9.9	9/2/2008	5.1	10/10/2008	20.6
5/12/2008	4.4	6/19/2008	274.6	7/27/2008	8.2	9/3/2008	6.5	10/11/2008	23.8
5/13/2008	4.1	6/20/2008	277.7	7/28/2008	6.2	9/4/2008	6.5	10/12/2008	27.9
5/14/2008	3.3	6/21/2008	272.3	7/29/2008	3.0	9/5/2008	8.0	10/13/2008	28.0
5/15/2008	2.2	6/22/2008	295.3	7/30/2008	4.8	9/6/2008	11.1	10/14/2008	39.9
5/16/2008	1.1	6/23/2008	466.7	7/31/2008	12.4	9/7/2008	14.2	10/15/2008	45.3
5/17/2008	1.7	6/24/2008	662.3	8/1/2008	11.4	9/8/2008	19.1		
5/18/2008	1.3	6/25/2008	519.7	8/2/2008	10.4	9/9/2008	20.3		
5/19/2008	1.1	6/26/2008	426.9	8/3/2008	12.0	9/10/2008	22.5		
5/20/2008	1.1	6/27/2008	320.1	8/4/2008	12.5	9/11/2008	37.8		
5/21/2008	7.9	6/28/2008	252.0	8/5/2008	16.3	9/12/2008	45.1		
5/22/2008	204.1	6/29/2008	221.6	8/6/2008	14.5	9/13/2008	36.3		
5/23/2008	294.1	6/30/2008	221.8	8/7/2008	10.2	9/14/2008	29.9		
5/24/2008	349.5	7/1/2008	303.5	8/8/2008	13.1	9/15/2008	26.1		
5/25/2008	290.7	7/2/2008	520.5	8/9/2008	14.2	9/16/2008	22.4		
5/26/2008	169.2	7/3/2008	409.5	8/10/2008	10.9	9/17/2008	20.8		
5/27/2008	142.3	7/4/2008	319.0	8/11/2008	11.2	9/18/2008	20.9		
5/28/2008	147.1	7/5/2008	405.5	8/12/2008	9.6	9/19/2008	21.4		
5/29/2008	114.0	7/6/2008	384.0	8/13/2008	7.2	9/20/2008	21.8		
5/30/2008	105.6	7/7/2008	283.6	8/14/2008	7.2	9/21/2008	21.9		
5/31/2008	--	7/8/2008	217.6	8/15/2008	7.4	9/22/2008	20.2		
6/1/2008	--	7/9/2008	186.7	8/16/2008	9.1	9/23/2008	21.2		
6/2/2008	--	7/10/2008	166.3	8/17/2008	7.0	9/24/2008	22.0		
6/3/2008	--	7/11/2008	153.8	8/18/2008	5.6	9/25/2008	22.0		
6/4/2008	--	7/12/2008	149.3	8/19/2008	5.1	9/26/2008	21.9		
6/5/2008	--	7/13/2008	110.6	8/20/2008	6.4	9/27/2008	20.4		

## **Appendix C – Potentially Storable Volume Graphs 2006-2008**

