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ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

JUN 29 2010

DEPARTMENT OF
WATER RESOURCES

June 28, 2010

Michel Edl
Idaho Department of Water Resources
322 East Front Street
P.O. Box 83720
Boise, ID 83720-0098

Re: Permit 01-10542 Beneficial Use Examination

Dear Michelle:

Two additional discharge measurements have been made at the Gem Harbor diversion in order to 1) better quantify the rating curve and 2) provide data to support an annual volume calculation over the permit development period.

The two additional measurements were made on June 17 and June 22, 2010. On these dates the measured diversion rate was 44.6 cfs and 22.4 cfs and the differential head across the culvert was 0.945 and 0.33 feet, respectively. These additional points are shown on the attached rating curve, along with the fitted curve based on a power law:

$$Q_c = 46.3(\Delta H)^{0.66}$$

This equation is considerably different from the original theoretical estimate because the original curve was incorrectly developed assuming a 30" pipeline, when in fact the pipeline has an inside diameter of 36". The curve is an excellent fit to the four data points and is considered adequate for diversion measurement purposes.

Over the course of the measurements, the river elevation at the culvert varied by 1.1 feet. This variation is considerably greater than the ± 0.2 feet you mention in your letter, which indicates that the effect of the Gem Lake Dam is attenuated at the diversion location, which is 2.8 miles upstream of the dam. The existence of this magnitude of variation in stage is confirmed by the clear indications of high water marks as referenced in the original narrative. The flow through the culvert therefore varies considerably over the season, generally mirroring the hydrograph of flow in the Snake River.

In the beneficial use exam narrative, I did not make an estimate of actual annual volume diverted, but suggested that the volume number should be

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refined based on additional measurements of flow diverted at the culvert and refinement of the rating curve. To enable the estimation of actual flow variations and annual volume diverted, a relationship was developed between discharge in the Snake River at the Gem Harbor diversion and the free-flow diversion rate through the culvert in the following manner:

Discharge at the USGS gauge 13060000 Snake River Nr Shelley at the time of each diversion measurement was adjusted by adding the diversions from the Snake River Valley Canal, the Woodville Canal, and the Woodville Siphon. These three canals are the major diversions between the Gem Harbor diversion and the Shelley gauge. Three small pumps totaling less than 1 cfs in this reach were neglected. Diversion data for these canals was obtained from the IDWR data archive and/or the Bureau of Reclamation Hydromet data system.

The river discharge at the Gem Lake diversion was plotted against the observed differential head across the culvert (see attached plot). A good relationship was developed using second-order polynomial fit as follows:

$$\Delta H = -5.61 \times 10^{-4} Q_r^2 + 8.11 \times 10^{-2} Q_r - 0.318$$

where Q_r is the river discharge in thousands of cubic feet per second. As seen on the graph, this fitted curve would result in zero flow through the culvert at river flows less than about 4100 cfs. In reality, some flow will always pass through the culvert because the river level will always fall some amount between the Gem Harbor inlet and outlet. Therefore, a piecewise linear relationship was assumed between the lowest observed river level over 2007-2009 (1250 cfs), and the lowest measured point.

Using the above two equations, the daily diversion through the culvert was estimated for 2007 through 2009. First, the daily river discharge at the Gem Harbor diversion was calculated by adjusting the Shelley gauge for 2007 through 2009 for observed daily diversions at the three canals mentioned above. The corresponding diversion rate through the culvert on each day was calculated by determining the differential head using the above equation, and then applying the rating equation for the culvert. The annual volume was then calculated by accumulating the daily diversions over each calendar year.

It was determined that the diversion rate over the permit development period exceeded the permitted amount of 26.8 cfs. If the diversion rate was assumed

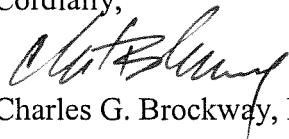
to be limited to this rate on any given day, the annual volume that can be licensed is less. The calculated values are shown in the following table:

Calendar Year	Maximum Diversion Rate (cfs)	Annual Volume (ac-ft, actual)	Annual Volume (ac-ft, rate limited to 26.8 cfs)
2007	28.6	5882.1	5876.5
2008	47.0	8174.2	7648.2
2009	59.5	10498.0	8049.5
2010 (through 6/22)	55.7	3295.2	2683.4

Depending on the shape of the river hydrograph in any given year, the annual volume that will flow through the harbor could easily be more than these amounts in the future even though no changes are made to the diversion system. If it comports with IDWR policy, it may be prudent for this unique case to license 01-10542 without an annual volume limit, as was done for 01-7103.

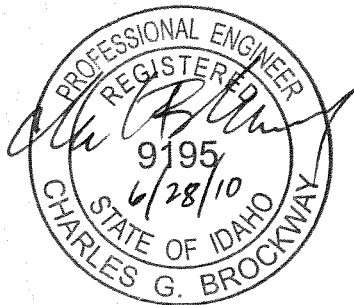
Because the flow rate exceeds the permitted amount, another non-consumptive permit application will be filed to cover the difference. Guidance is requested from IDWR as to the proper diversion rate on which to file for this situation. The rate must be sufficient to cover high flows, but should it be the highest conceivable flow? It may not be reasonable to use the flow that would occur at the maximum peak flood observed in the river.

Cordially,



Charles G. Brockway, P.E.

Enc. Rating curves, annual volume estimation
Cc: Doyle Beck
Jeff Peppersack, IDWR



Culvert Rating Table - Corrected

Brockway Engineering, PLLC REVISED 6/23/2010

LOCATION / OWNER:

Gem Harbor - Diversion Culvert

BRP, Inc.

Water Rights 01-10542 and 01-7103

DATE OF TABLE:

6/23/2010

DESCRIPTION:

Concrete headwall, 42" C-10 gate, 40-foot concrete culvert, 36" diameter.
Inlet flush with headwall, outlet projecting through fill, both ends submerged.
Rating equation is based on head differential across culvert, submerged conditions, and headgate fully open.

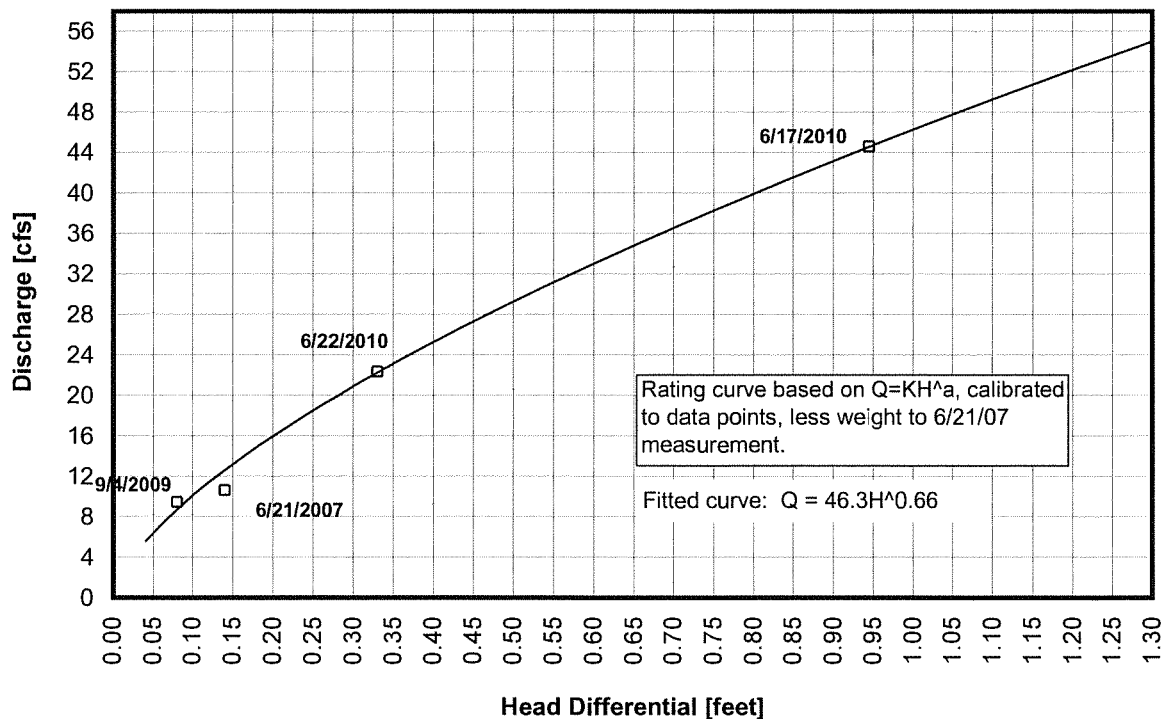
EQUATION:

$Q = K \Delta H^a$, where K = total head loss coefficient and a is a fitted exponent

DISCHARGE IN CUBIC FEET PER SECOND

Note: Valid only for submerged conditions and headgate fully open

ΔH [feet]	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.1	10.1	10.8	11.4	12.0	12.6	13.2	13.8	14.4	14.9	15.5
0.2	16.0	16.5	17.0	17.6	18.1	18.5	19.0	19.5	20.0	20.5
0.3	20.9	21.4	21.8	22.3	22.7	23.2	23.6	24.0	24.4	24.9
0.4	25.3	25.7	26.1	26.5	26.9	27.3	27.7	28.1	28.5	28.9
0.5	29.3	29.7	30.1	30.5	30.8	31.2	31.6	31.9	32.3	32.7
0.6	33.0	33.4	33.8	34.1	34.5	34.8	35.2	35.5	35.9	36.2
0.7	36.6	36.9	37.3	37.6	38.0	38.3	38.6	39.0	39.3	39.6
0.8	40.0	40.3	40.6	40.9	41.3	41.6	41.9	42.2	42.6	42.9
0.9	43.2	43.5	43.8	44.1	44.4	44.8	45.1	45.4	45.7	46.0
1	46.3	46.6	46.9	47.2	47.5	47.8	48.1	48.4	48.7	49.0



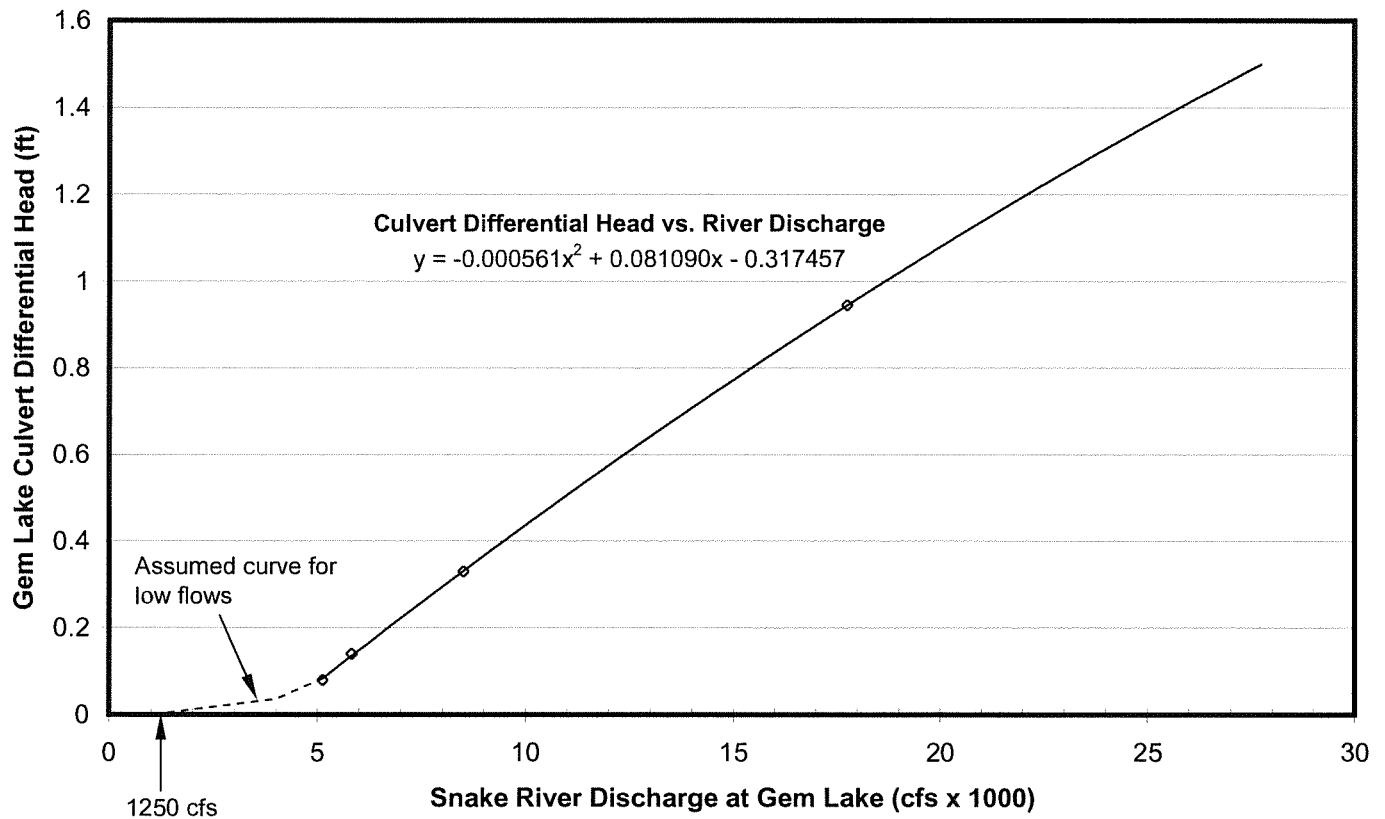
GEM HARBOR DIVERSION DATA AND CORRELATION WITH SNAKE RIVER FLOW

Brockway Engineering 6/28/10

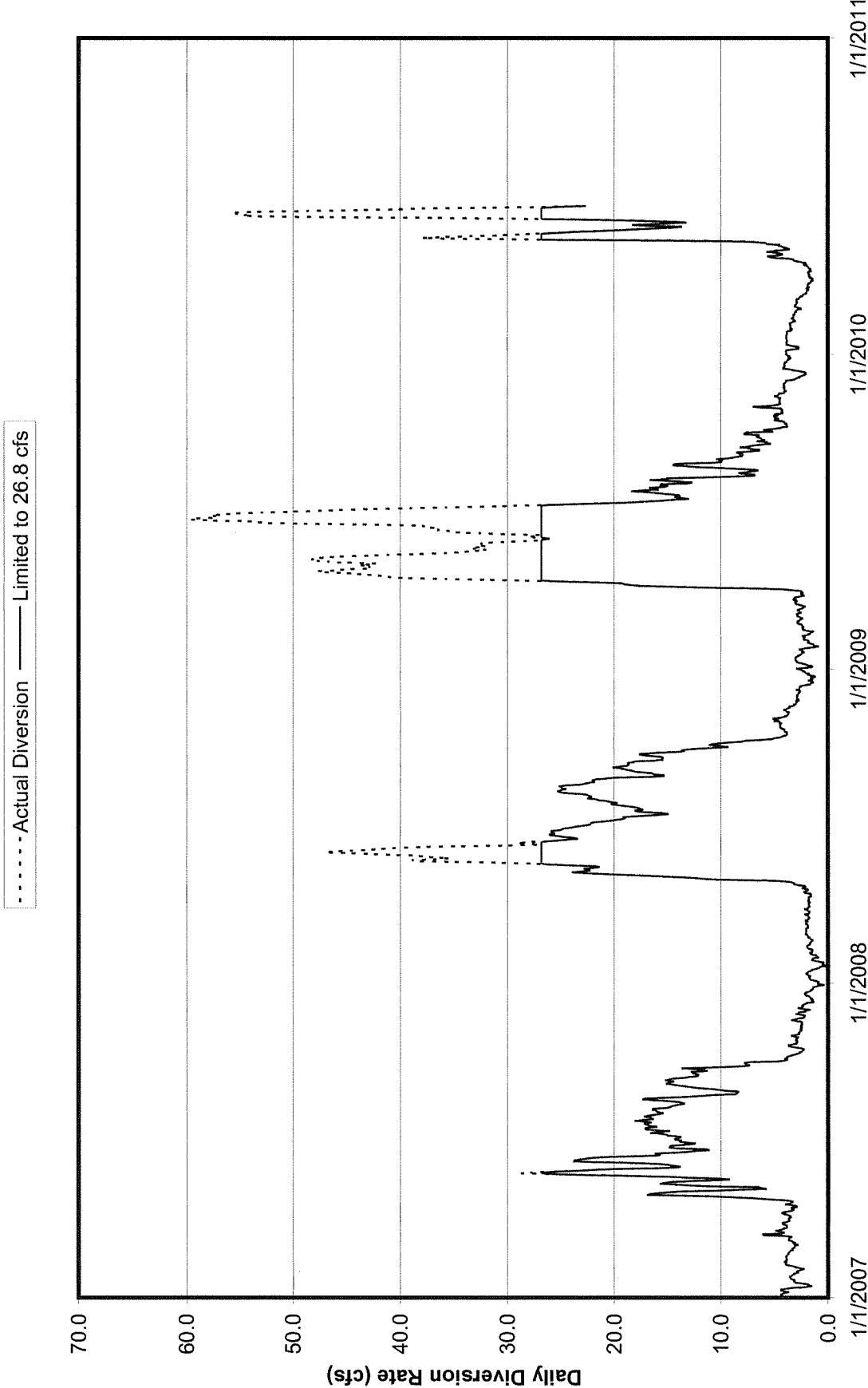
Date	River elev at Culvert*	Culvert dH	Meas Q	Snake R. nr Shelley**	SR Valley Canal**	Woodville Canal**	Woodville Siphon**	Estimated River Q Gem Lake
6/2/1995	n/a	n/a	55.48	17000	479	43	n/a	17522
6/21/2007	96.29	0.14	10.63	5260	503	51	11.0	5825
9/4/2009	96.26	0.08	9.46	4730	345	37	9.2	5121
6/17/2010	97.36	0.945	44.6	17300	391	47	10.0	17748
6/22/2010	96.54	0.33	22.35	8004	434	50	10.0	8498

* Relative to top of headwall.

** 6/17/10 and 6/22/10 measurements: Average over measurment duration.
2007 and 2009 measurements: Daily average.



Estimated Diversion at Gem Harbor Headgate



GEM HARBOR DIVERSION - ANNUAL VOLUME ESTIMATION

Snake River nr Shelly daily discharge used to estimate culvert differential head.

Differential head used to estimate diversion rate using rating curve.

Brockway Engineering, PLLC 6/28/10

Year	Maximum diversion (cfs)	Annual volume (af)	Annual volume with div. limited to 26.8 cfs
2007	28.6	5882.1	5876.5
2008	47.0	8174.2	7648.2
2009	59.5	10498.0	8049.5
2010 (to date)	55.7	3295.2	2683.4

DISCHARGES IN CFS

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			Diversion (limited to 26.8 cfs)
	River Q	dH	Diversion					
1/1/2007	3090	0.02	3.5	0.0	3090	0.02	3.5	3.5
1/2/2007	3300	0.02	3.8	0.0	3300	0.02	3.8	3.8
1/3/2007	3640	0.03	4.2	0.0	3640	0.03	4.2	4.2
1/4/2007	3790	0.03	4.3	0.0	3790	0.03	4.3	4.3
1/5/2007	3910	0.03	4.5	0.0	3910	0.03	4.5	4.5
1/6/2007	3710	0.03	4.3	0.0	3710	0.03	4.3	4.3
1/7/2007	3560	0.03	4.1	0.0	3560	0.03	4.1	4.1
1/8/2007	3200	0.02	3.6	0.0	3200	0.02	3.6	3.6
1/9/2007	3600	0.03	4.1	0.0	3600	0.03	4.1	4.1
1/10/2007	3930	0.03	4.5	0.0	3930	0.03	4.5	4.5
1/11/2007	3800	0.03	4.4	0.0	3800	0.03	4.4	4.4
1/12/2007	3300	0.02	3.8	0.0	3300	0.02	3.8	3.8
1/13/2007	2900	0.02	3.3	0.0	2900	0.02	3.3	3.3
1/14/2007	2100	0.01	2.1	0.0	2100	0.01	2.1	2.1
1/15/2007	1800	0.01	1.6	0.0	1800	0.01	1.6	1.6
1/16/2007	1900	0.01	1.8	0.0	1900	0.01	1.8	1.8
1/17/2007	1900	0.01	1.8	0.0	1900	0.01	1.8	1.8
1/18/2007	2300	0.01	2.4	0.0	2300	0.01	2.4	2.4
1/19/2007	2700	0.02	3.0	0.0	2700	0.02	3.0	3.0
1/20/2007	2800	0.02	3.1	0.0	2800	0.02	3.1	3.1
1/21/2007	2900	0.02	3.3	0.0	2900	0.02	3.3	3.3
1/22/2007	2800	0.02	3.1	0.0	2800	0.02	3.1	3.1
1/23/2007	3000	0.02	3.4	0.0	3000	0.02	3.4	3.4
1/24/2007	3100	0.02	3.5	0.0	3100	0.02	3.5	3.5
1/25/2007	3100	0.02	3.5	0.0	3100	0.02	3.5	3.5
1/26/2007	3100	0.02	3.5	0.0	3100	0.02	3.5	3.5
1/27/2007	3000	0.02	3.4	0.0	3000	0.02	3.4	3.4
1/28/2007	2950	0.02	3.3	0.0	2950	0.02	3.3	3.3
1/29/2007	2850	0.02	3.2	0.0	2850	0.02	3.2	3.2
1/30/2007	2750	0.02	3.1	0.0	2750	0.02	3.1	3.1
1/31/2007	2500	0.01	2.7	0.0	2500	0.01	2.7	2.7
2/1/2007	2600	0.01	2.9	0.0	2600	0.01	2.9	2.9
2/2/2007	2500	0.01	2.7	0.0	2500	0.01	2.7	2.7
2/3/2007	2350	0.01	2.5	0.0	2350	0.01	2.5	2.5
2/4/2007	2200	0.01	2.3	0.0	2200	0.01	2.3	2.3
2/5/2007	2500	0.01	2.7	0.0	2500	0.01	2.7	2.7
2/6/2007	2700	0.02	3.0	0.0	2700	0.02	3.0	3.0
2/7/2007	2900	0.02	3.3	0.0	2900	0.02	3.3	3.3
2/8/2007	3200	0.02	3.6	0.0	3200	0.02	3.6	3.6

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
	River Q	dH	Diversion					
2/9/2007	3500	0.0	0.0	0.0	3500	0.02	4.0	4.0
2/10/2007	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
2/11/2007	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
2/12/2007	3600	0.0	0.0	0.0	3600	0.03	4.1	4.1
2/13/2007	3450	0.0	0.0	0.0	3450	0.02	3.9	3.9
2/14/2007	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
2/15/2007	3350	0.0	0.0	0.0	3350	0.02	3.8	3.8
2/16/2007	3350	0.0	0.0	0.0	3350	0.02	3.8	3.8
2/17/2007	3450	0.0	0.0	0.0	3450	0.02	3.9	3.9
2/18/2007	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
2/19/2007	3350	0.0	0.0	0.0	3350	0.02	3.8	3.8
2/20/2007	3350	0.0	0.0	0.0	3350	0.02	3.8	3.8
2/21/2007	3250	0.0	0.0	0.0	3250	0.02	3.7	3.7
2/22/2007	3250	0.0	0.0	0.0	3250	0.02	3.7	3.7
2/23/2007	3200	0.0	0.0	0.0	3200	0.02	3.6	3.6
2/24/2007	3150	0.0	0.0	0.0	3150	0.02	3.6	3.6
2/25/2007	3130	0.0	0.0	0.0	3130	0.02	3.6	3.6
2/26/2007	2940	0.0	0.0	0.0	2940	0.02	3.3	3.3
2/27/2007	2990	0.0	0.0	0.0	2990	0.02	3.4	3.4
2/28/2007	2890	0.0	0.0	0.0	2890	0.02	3.3	3.3
3/1/2007	2830	0.0	0.0	0.0	2830	0.02	3.2	3.2
3/2/2007	2810	0.0	0.0	0.0	2810	0.02	3.1	3.1
3/3/2007	2710	0.0	0.0	0.0	2710	0.02	3.0	3.0
3/4/2007	2590	0.0	0.0	0.0	2590	0.01	2.8	2.8
3/5/2007	2880	0.0	0.0	0.0	2880	0.02	3.2	3.2
3/6/2007	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
3/7/2007	2910	0.0	0.0	0.0	2910	0.02	3.3	3.3
3/8/2007	2940	0.0	0.0	0.0	2940	0.02	3.3	3.3
3/9/2007	3190	0.0	0.0	0.0	3190	0.02	3.6	3.6
3/10/2007	3180	0.0	0.0	0.0	3180	0.02	3.6	3.6
3/11/2007	3200	0.0	0.0	0.0	3200	0.02	3.6	3.6
3/12/2007	3190	0.0	0.0	0.0	3190	0.02	3.6	3.6
3/13/2007	3020	0.0	0.0	0.0	3020	0.02	3.4	3.4
3/14/2007	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
3/15/2007	4360	0.0	0.0	0.0	4360	0.05	6.1	6.1
3/16/2007	4370	0.0	0.0	0.0	4370	0.05	6.1	6.1
3/17/2007	3820	0.0	0.0	0.0	3820	0.03	4.4	4.4
3/18/2007	3620	0.0	0.0	0.0	3620	0.03	4.1	4.1
3/19/2007	3730	0.0	0.0	0.0	3730	0.03	4.3	4.3
3/20/2007	4060	0.0	0.0	0.0	4060	0.03	4.8	4.8
3/21/2007	3970	0.0	0.0	0.0	3970	0.03	4.5	4.5
3/22/2007	3730	0.0	0.0	0.0	3730	0.03	4.3	4.3
3/23/2007	3580	0.0	0.0	0.0	3580	0.03	4.1	4.1
3/24/2007	3330	0.0	0.0	0.0	3330	0.02	3.8	3.8
3/25/2007	3340	0.0	0.0	0.0	3340	0.02	3.8	3.8
3/26/2007	3390	0.0	0.0	0.0	3390	0.02	3.9	3.9
3/27/2007	3450	0.0	0.0	0.0	3450	0.02	3.9	3.9
3/28/2007	3720	0.0	0.0	0.0	3720	0.03	4.3	4.3
3/29/2007	3680	0.0	0.0	0.0	3680	0.03	4.2	4.2
3/30/2007	3520	0.0	0.0	0.0	3520	0.02	4.0	4.0
3/31/2007	3280	0.0	0.0	0.0	3280	0.02	3.7	3.7
4/1/2007	3200	0.0	0.0	0.0	3200	0.02	3.6	3.6
4/2/2007	3170	0.0	0.0	0.0	3170	0.02	3.6	3.6

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
4/3/2007	3230	0.0	0.0	0.0	3230	0.02	3.7	3.7
4/4/2007	3230	0.0	0.0	0.0	3230	0.02	3.7	3.7
4/5/2007	3090	0.0	0.0	0.0	3090	0.02	3.5	3.5
4/6/2007	3070	0.0	0.0	0.0	3070	0.02	3.5	3.5
4/7/2007	3210	0.0	0.0	0.0	3210	0.02	3.7	3.7
4/8/2007	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
4/9/2007	3610	0.0	0.0	0.0	3610	0.03	4.1	4.1
4/10/2007	3810	0.0	3.5	0.0	3814	0.03	4.4	4.4
4/11/2007	3510	0.0	11.2	0.0	3521	0.02	4.0	4.0
4/12/2007	3190	0.0	15.6	0.0	3206	0.02	3.7	3.7
4/13/2007	2920	44.1	15.6	0.0	2980	0.02	3.4	3.4
4/14/2007	2770	46.3	15.6	0.0	2832	0.02	3.2	3.2
4/15/2007	2760	75.9	15.6	0.0	2851	0.02	3.2	3.2
4/16/2007	2840	135.5	15.6	0.0	2991	0.02	3.4	3.4
4/17/2007	2390	201.0	18.1	0.0	2609	0.01	2.9	2.9
4/18/2007	2380	233.9	22.2	0.0	2636	0.02	2.9	2.9
4/19/2007	2720	233.2	22.2	0.0	2975	0.02	3.4	3.4
4/20/2007	3160	234.0	22.8	0.0	3417	0.02	3.9	3.9
4/21/2007	2820	233.3	22.8	0.0	3076	0.02	3.5	3.5
4/22/2007	2780	234.2	22.8	0.0	3037	0.02	3.4	3.4
4/23/2007	2700	233.1	22.8	0.0	2956	0.02	3.3	3.3
4/24/2007	2880	234.2	23.0	0.0	3137	0.02	3.6	3.6
4/25/2007	3590	234.5	23.0	0.0	3848	0.03	4.4	4.4
4/26/2007	4000	234.6	22.5	0.0	4257	0.04	5.7	5.7
4/27/2007	4330	242.2	22.2	0.0	4594	0.06	7.0	7.0
4/28/2007	4780	275.4	22.2	0.0	5078	0.08	8.6	8.6
4/29/2007	5120	289.7	22.7	0.0	5432	0.11	10.6	10.6
4/30/2007	5700	308.7	22.5	0.0	6031	0.15	13.3	13.3
5/1/2007	6560	323.1	22.2	6.9	6912	0.22	16.8	16.8
5/2/2007	6480	355.5	22.2	6.9	6865	0.21	16.7	16.7
5/3/2007	6280	385.7	22.2	6.9	6695	0.20	16.0	16.0
5/4/2007	5990	373.7	22.2	6.9	6393	0.18	14.8	14.8
5/5/2007	5760	358.1	24.6	6.9	6150	0.16	13.8	13.8
5/6/2007	5030	338.8	26.3	6.9	5402	0.10	10.4	10.4
5/7/2007	4510	339.9	27.6	6.9	4884	0.07	8.0	8.0
5/8/2007	3890	373.8	32.0	6.9	4303	0.04	5.8	5.8
5/9/2007	3960	408.0	35.2	6.9	4410	0.05	6.3	6.3
5/10/2007	4020	412.4	40.5	6.9	4480	0.05	6.5	6.5
5/11/2007	5080	433.3	45.6	6.9	5566	0.12	11.2	11.2
5/12/2007	5520	444.2	51.2	6.9	6022	0.15	13.3	13.3
5/13/2007	5740	444.8	53.9	6.9	6246	0.17	14.2	14.2
5/14/2007	6120	445.0	52.8	6.9	6625	0.20	15.7	15.7
5/15/2007	5950	467.4	51.6	7.7	6477	0.18	15.2	15.2
5/16/2007	5830	487.7	52.1	7.7	6378	0.18	14.8	14.8
5/17/2007	5310	493.3	51.7	7.7	5863	0.14	12.6	12.6
5/18/2007	4810	493.0	51.4	7.7	5362	0.10	10.2	10.2
5/19/2007	4620	495.5	54.1	7.7	5177	0.09	9.3	9.3
5/20/2007	4830	504.9	57.9	7.7	5400	0.10	10.4	10.4
5/21/2007	5440	516.4	58.4	7.7	6023	0.15	13.3	13.3
5/22/2007	5720	515.3	58.3	7.7	6301	0.17	14.4	14.4
5/23/2007	6890	514.9	58.4	7.7	7471	0.26	18.9	18.9
5/24/2007	8000	509.8	57.7	7.7	8575	0.34	22.6	22.6
5/25/2007	9070	495.3	58.5	7.7	9631	0.41	25.8	25.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
5/26/2007	10100	489.6	58.4	7.7	10656	0.48	28.6	26.8
5/27/2007	9800	486.7	57.2	7.7	10352	0.46	27.8	26.8
5/28/2007	8950	488.4	55.4	7.7	9502	0.40	25.4	25.4
5/29/2007	8310	491.9	57.4	8.5	8868	0.36	23.5	23.5
5/30/2007	7720	506.1	57.1	8.6	8292	0.32	21.7	21.7
5/31/2007	7140	506.8	57.4	8.6	7713	0.27	19.7	19.7
6/1/2007	6090	506.5	57.1	8.7	6662	0.20	15.9	15.9
6/2/2007	5620	505.1	56.7	8.7	6191	0.16	14.0	14.0
6/3/2007	5570	508.1	58.1	8.8	6145	0.16	13.8	13.8
6/4/2007	5750	516.8	58.2	8.9	6334	0.17	14.6	14.6
6/5/2007	5830	527.8	55.4	8.9	6422	0.18	14.9	14.9
6/6/2007	6140	454.3	53.9	9.0	6657	0.20	15.9	15.9
6/7/2007	6900	428.3	55.1	9.9	7393	0.25	18.6	18.6
6/8/2007	7880	430.0	53.9	10.0	8374	0.32	21.9	21.9
6/9/2007	8460	429.3	50.5	10.0	8950	0.36	23.7	23.7
6/10/2007	8480	427.8	50.2	10.1	8968	0.36	23.8	23.8
6/11/2007	8300	430.6	50.5	10.2	8791	0.35	23.2	23.2
6/12/2007	8070	449.3	50.1	10.2	8580	0.34	22.6	22.6
6/13/2007	7850	481.9	50.2	10.3	8392	0.32	22.0	22.0
6/14/2007	7470	494.0	50.0	10.4	8024	0.30	20.8	20.8
6/15/2007	6500	490.8	49.5	11.4	7052	0.23	17.4	17.4
6/16/2007	6090	492.6	49.9	11.2	6644	0.20	15.8	15.8
6/17/2007	6050	489.5	49.3	11.2	6600	0.19	15.6	15.6
6/18/2007	6190	486.9	50.6	11.1	6739	0.20	16.2	16.2
6/19/2007	5720	484.4	50.9	11.1	6266	0.17	14.3	14.3
6/20/2007	5390	501.1	51.2	11.0	5953	0.15	13.0	13.0
6/21/2007	5260	502.5	51.4	11.0	5825	0.14	12.4	12.4
6/22/2007	4970	501.6	51.0	10.9	5533	0.11	11.0	11.0
6/23/2007	5030	503.3	51.3	10.8	5595	0.12	11.3	11.3
6/24/2007	5650	507.3	52.1	10.8	6220	0.17	14.1	14.1
6/25/2007	5830	504.3	37.4	11.6	6383	0.18	14.8	14.8
6/26/2007	5830	499.2	50.1	11.5	6391	0.18	14.8	14.8
6/27/2007	5820	499.6	50.2	11.5	6381	0.18	14.8	14.8
6/28/2007	5560	496.2	50.1	11.4	6118	0.16	13.7	13.7
6/29/2007	5310	517.1	52.2	11.4	5891	0.14	12.7	12.7
6/30/2007	5240	529.0	55.1	11.3	5835	0.14	12.4	12.4
7/1/2007	5470	526.9	54.7	11.2	6063	0.15	13.4	13.4
7/2/2007	5580	530.6	55.6	11.2	6177	0.16	13.9	13.9
7/3/2007	5540	527.3	54.9	11.3	6133	0.16	13.7	13.7
7/4/2007	5670	528.1	55.4	11.9	6265	0.17	14.3	14.3
7/5/2007	5670	525.2	54.2	11.8	6261	0.17	14.3	14.3
7/6/2007	5600	521.8	53.2	11.6	6187	0.16	14.0	14.0
7/7/2007	5550	518.6	52.8	11.5	6133	0.16	13.7	13.7
7/8/2007	5620	521.9	53.9	11.4	6207	0.16	14.1	14.1
7/9/2007	5870	517.2	55.1	11.2	6454	0.18	15.1	15.1
7/10/2007	5880	505.3	56.1	11.1	6453	0.18	15.1	15.1
7/11/2007	6070	484.0	56.6	11.0	6622	0.19	15.7	15.7
7/12/2007	6300	465.2	56.2	10.9	6832	0.21	16.5	16.5
7/13/2007	6100	460.8	56.4	10.7	6628	0.20	15.8	15.8
7/14/2007	5880	453.8	56.7	10.6	6401	0.18	14.9	14.9
7/15/2007	6170	455.1	57.4	10.5	6693	0.20	16.0	16.0
7/16/2007	6450	450.1	56.8	11.2	6968	0.22	17.1	17.1
7/17/2007	6490	432.8	56.7	11.1	6991	0.22	17.1	17.1

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
7/18/2007	6490	418.8	56.5	11.0	6976	0.22	17.1	17.1
7/19/2007	6210	419.3	57.2	10.9	6697	0.20	16.0	16.0
7/20/2007	6350	420.3	56.6	10.7	6838	0.21	16.6	16.6
7/21/2007	6410	416.7	54.1	10.6	6891	0.21	16.8	16.8
7/22/2007	6480	407.8	54.2	10.5	6952	0.22	17.0	17.0
7/23/2007	6550	408.1	51.3	10.4	7020	0.22	17.3	17.3
7/24/2007	6360	399.5	48.4	10.2	6818	0.21	16.5	16.5
7/25/2007	6510	387.7	46.1	10.1	6954	0.22	17.0	17.0
7/26/2007	6780	392.4	44.2	10.0	7227	0.24	18.0	18.0
7/27/2007	6600	389.0	41.5	9.9	7040	0.23	17.3	17.3
7/28/2007	6350	379.5	38.2	11.0	6779	0.21	16.3	16.3
7/29/2007	6410	375.7	35.5	10.6	6832	0.21	16.5	16.5
7/30/2007	6400	376.4	35.2	10.7	6822	0.21	16.5	16.5
7/31/2007	6570	376.4	35.2	10.7	6992	0.22	17.2	17.2
8/1/2007	6500	376.1	35.1	10.7	6922	0.22	16.9	16.9
8/2/2007	6330	386.5	33.8	10.8	6761	0.21	16.3	16.3
8/3/2007	6200	393.8	32.6	10.8	6637	0.20	15.8	15.8
8/4/2007	6080	410.8	32.3	10.8	6534	0.19	15.4	15.4
8/5/2007	6190	416.0	32.6	10.8	6649	0.20	15.8	15.8
8/6/2007	6270	407.7	30.9	10.9	6719	0.20	16.1	16.1
8/7/2007	6260	397.0	30.3	10.9	6698	0.20	16.0	16.0
8/8/2007	6360	381.0	30.0	10.9	6782	0.21	16.4	16.4
8/9/2007	6390	374.9	31.4	11.0	6807	0.21	16.5	16.5
8/10/2007	6040	373.4	33.4	11.0	6458	0.18	15.1	15.1
8/11/2007	5960	374.9	33.8	11.0	6380	0.18	14.8	14.8
8/12/2007	5920	373.2	33.5	11.1	6338	0.17	14.6	14.6
8/13/2007	5850	373.8	33.8	11.1	6269	0.17	14.3	14.3
8/14/2007	5720	375.9	33.8	11.1	6141	0.16	13.8	13.8
8/15/2007	5630	391.8	34.7	11.2	6068	0.15	13.5	13.5
8/16/2007	5650	405.1	41.5	11.2	6108	0.16	13.6	13.6
8/17/2007	5720	405.6	43.9	11.1	6181	0.16	13.9	13.9
8/18/2007	6000	367.7	44.4	10.3	6422	0.18	14.9	14.9
8/19/2007	6440	345.4	44.4	10.3	6840	0.21	16.6	16.6
8/20/2007	6640	336.9	44.5	10.3	7032	0.22	17.3	17.3
8/21/2007	6630	339.8	43.5	10.3	7024	0.22	17.3	17.3
8/22/2007	5980	357.4	44.1	10.3	6392	0.18	14.8	14.8
8/23/2007	5590	356.7	43.9	10.3	6001	0.15	13.2	13.2
8/24/2007	5350	239.3	44.3	10.3	5644	0.12	11.6	11.6
8/25/2007	5360	17.6	44.2	10.3	5432	0.11	10.6	10.6
8/26/2007	4970	49.0	44.4	9.5	5073	0.08	8.6	8.6
8/27/2007	4730	269.8	44.0	9.5	5053	0.08	8.5	8.5
8/28/2007	4710	309.1	41.8	9.5	5070	0.08	8.6	8.6
8/29/2007	4640	300.5	41.7	9.5	4992	0.07	8.3	8.3
8/30/2007	4940	268.4	40.3	9.5	5258	0.09	9.7	9.7
8/31/2007	5000	304.5	38.4	9.5	5352	0.10	10.2	10.2
9/1/2007	5160	318.4	38.3	8.7	5525	0.11	11.0	11.0
9/2/2007	5420	301.0	38.5	8.7	5768	0.13	12.1	12.1
9/3/2007	5530	301.1	38.6	8.7	5878	0.14	12.6	12.6
9/4/2007	5700	293.7	36.7	8.7	6039	0.15	13.3	13.3
9/5/2007	5910	230.4	35.6	8.7	6185	0.16	14.0	14.0
9/6/2007	6060	212.2	33.6	8.7	6314	0.17	14.5	14.5
9/7/2007	6190	221.0	31.9	8.7	6452	0.18	15.1	15.1
9/8/2007	6190	218.2	30.8	8.7	6448	0.18	15.0	15.0

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
9/9/2007	6090	205.2	28.5	7.9	6332	0.17	14.6	14.6
9/10/2007	6080	189.3	28.7	7.9	6306	0.17	14.5	14.5
9/11/2007	6220	216.7	28.0	7.9	6473	0.18	15.1	15.1
9/12/2007	6150	226.8	24.4	7.9	6409	0.18	14.9	14.9
9/13/2007	6080	227.0	24.4	7.9	6339	0.17	14.6	14.6
9/14/2007	5770	226.3	24.3	7.9	6028	0.15	13.3	13.3
9/15/2007	5700	226.9	24.4	7.9	5959	0.15	13.0	13.0
9/16/2007	5530	223.4	24.5	7.9	5786	0.13	12.2	12.2
9/17/2007	5530	195.1	24.4	7.1	5757	0.13	12.1	12.1
9/18/2007	5550	188.4	24.4	7.1	5770	0.13	12.1	12.1
9/19/2007	5670	188.8	24.3	7.1	5890	0.14	12.7	12.7
9/20/2007	5650	188.8	24.5	7.1	5870	0.14	12.6	12.6
9/21/2007	5690	188.8	17.1	7.1	5903	0.14	12.7	12.7
9/22/2007	5380	188.8	2.2	7.1	5578	0.12	11.3	11.3
9/23/2007	5450	179.8	12.5	7.1	5649	0.12	11.6	11.6
9/24/2007	5590	162.2	23.6	7.1	5783	0.13	12.2	12.2
9/25/2007	5920	155.1	23.6	6.3	6105	0.16	13.6	13.6
9/26/2007	5330	154.9	23.4	6.3	5515	0.11	11.0	11.0
9/27/2007	4880	155.0	23.4	6.3	5065	0.08	8.6	8.6
9/28/2007	4550	155.0	23.5	6.3	4735	0.06	7.4	7.4
9/29/2007	4530	154.4	23.5	6.3	4714	0.06	7.4	7.4
9/30/2007	4660	154.0	11.5	6.3	4832	0.07	7.8	7.8
10/1/2007	4650	176.9	0.0	5.6	4832	0.07	7.8	7.8
10/2/2007	4560	202.6	0.0	5.6	4768	0.06	7.6	7.6
10/3/2007	3790	202.6	0.0	5.6	3998	0.03	4.6	4.6
10/4/2007	3370	202.2	0.0	5.6	3578	0.03	4.1	4.1
10/5/2007	3130	201.8	0.0	5.6	3337	0.02	3.8	3.8
10/6/2007	3460	102.6	0.0	5.6	3568	0.03	4.1	4.1
10/7/2007	3330	17.8	0.0	5.6	3353	0.02	3.8	3.8
10/8/2007	3320	17.8	0.0	5.6	3343	0.02	3.8	3.8
10/9/2007	3200	17.8	0.0	4.9	3223	0.02	3.7	3.7
10/10/2007	2980	9.2	0.0	4.9	2994	0.02	3.4	3.4
10/11/2007	2810	0.0	0.0	4.9	2815	0.02	3.2	3.2
10/12/2007	2600	0.0	0.0	4.9	2605	0.01	2.9	2.9
10/13/2007	2470	0.0	0.0	4.9	2475	0.01	2.7	2.7
10/14/2007	2370	0.0	0.0	4.9	2375	0.01	2.5	2.5
10/15/2007	2280	0.0	0.0	4.9	2285	0.01	2.4	2.4
10/16/2007	2240	0.0	0.0	2.3	2242	0.01	2.3	2.3
10/17/2007	2220	0.0	0.0	0.0	2220	0.01	2.3	2.3
10/18/2007	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
10/19/2007	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
10/20/2007	3000	0.0	0.0	0.0	3000	0.02	3.4	3.4
10/21/2007	3200	0.0	0.0	0.0	3200	0.02	3.6	3.6
10/22/2007	3200	0.0	0.0	0.0	3200	0.02	3.6	3.6
10/23/2007	2870	0.0	0.0	0.0	2870	0.02	3.2	3.2
10/24/2007	2660	0.0	0.0	0.0	2660	0.02	2.9	2.9
10/25/2007	2630	0.0	0.0	0.0	2630	0.02	2.9	2.9
10/26/2007	2570	0.0	0.0	0.0	2570	0.01	2.8	2.8
10/27/2007	2630	0.0	0.0	0.0	2630	0.02	2.9	2.9
10/28/2007	2750	0.0	0.0	0.0	2750	0.02	3.1	3.1
10/29/2007	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
10/30/2007	2640	0.0	0.0	0.0	2640	0.02	2.9	2.9
10/31/2007	2570	0.0	0.0	0.0	2570	0.01	2.8	2.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
11/1/2007	2860	0.0	0.0	0.0	2860	0.02	3.2	3.2
11/2/2007	2970	0.0	0.0	0.0	2970	0.02	3.4	3.4
11/3/2007	2640	0.0	0.0	0.0	2640	0.02	2.9	2.9
11/4/2007	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
11/5/2007	2490	0.0	0.0	0.0	2490	0.01	2.7	2.7
11/6/2007	2430	0.0	0.0	0.0	2430	0.01	2.6	2.6
11/7/2007	2430	0.0	0.0	0.0	2430	0.01	2.6	2.6
11/8/2007	2350	0.0	0.0	0.0	2350	0.01	2.5	2.5
11/9/2007	2390	0.0	0.0	0.0	2390	0.01	2.6	2.6
11/10/2007	2270	0.0	0.0	0.0	2270	0.01	2.4	2.4
11/11/2007	2420	0.0	0.0	0.0	2420	0.01	2.6	2.6
11/12/2007	2320	0.0	0.0	0.0	2320	0.01	2.5	2.5
11/13/2007	2400	0.0	0.0	0.0	2400	0.01	2.6	2.6
11/14/2007	2390	0.0	0.0	0.0	2390	0.01	2.6	2.6
11/15/2007	2310	0.0	0.0	0.0	2310	0.01	2.4	2.4
11/16/2007	2330	0.0	0.0	0.0	2330	0.01	2.5	2.5
11/17/2007	2270	0.0	0.0	0.0	2270	0.01	2.4	2.4
11/18/2007	2330	0.0	0.0	0.0	2330	0.01	2.5	2.5
11/19/2007	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
11/20/2007	2970	0.0	0.0	0.0	2970	0.02	3.4	3.4
11/21/2007	2730	0.0	0.0	0.0	2730	0.02	3.0	3.0
11/22/2007	2540	0.0	0.0	0.0	2540	0.01	2.8	2.8
11/23/2007	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3
11/24/2007	2130	0.0	0.0	0.0	2130	0.01	2.2	2.2
11/25/2007	2130	0.0	0.0	0.0	2130	0.01	2.2	2.2
11/26/2007	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
11/27/2007	2650	0.0	0.0	0.0	2650	0.02	2.9	2.9
11/28/2007	2540	0.0	0.0	0.0	2540	0.01	2.8	2.8
11/29/2007	2560	0.0	0.0	0.0	2560	0.01	2.8	2.8
11/30/2007	2130	0.0	0.0	0.0	2130	0.01	2.2	2.2
12/1/2007	2020	0.0	0.0	0.0	2020	0.01	2.0	2.0
12/2/2007	1880	0.0	0.0	0.0	1880	0.01	1.7	1.7
12/3/2007	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
12/4/2007	2520	0.0	0.0	0.0	2520	0.01	2.7	2.7
12/5/2007	2310	0.0	0.0	0.0	2310	0.01	2.4	2.4
12/6/2007	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
12/7/2007	2260	0.0	0.0	0.0	2260	0.01	2.4	2.4
12/8/2007	2210	0.0	0.0	0.0	2210	0.01	2.3	2.3
12/9/2007	2090	0.0	0.0	0.0	2090	0.01	2.1	2.1
12/10/2007	1990	0.0	0.0	0.0	1990	0.01	1.9	1.9
12/11/2007	1650	0.0	0.0	0.0	1650	0.00	1.3	1.3
12/12/2007	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
12/13/2007	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/14/2007	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/15/2007	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/16/2007	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
12/17/2007	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
12/18/2007	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
12/19/2007	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
12/20/2007	2150	0.0	0.0	0.0	2150	0.01	2.2	2.2
12/21/2007	2150	0.0	0.0	0.0	2150	0.01	2.2	2.2
12/22/2007	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
12/23/2007	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
12/24/2007	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
12/25/2007	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/26/2007	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/27/2007	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/28/2007	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/29/2007	1600	0.0	0.0	0.0	1600	0.00	1.2	1.2
12/30/2007	1450	0.0	0.0	0.0	1450	0.00	0.8	0.8
12/31/2007	1300	0.0	0.0	0.0	1300	0.00	0.3	0.3
1/1/2008	1500	0.0	0.0	0.0	1500	0.00	0.9	0.9
1/2/2008	1500	0.0	0.0	0.0	1500	0.00	0.9	0.9
1/3/2008	1450	0.0	0.0	0.0	1450	0.00	0.8	0.8
1/4/2008	1550	0.0	0.0	0.0	1550	0.00	1.1	1.1
1/5/2008	1650	0.0	0.0	0.0	1650	0.00	1.3	1.3
1/6/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
1/7/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
1/8/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
1/9/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
1/10/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
1/11/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
1/12/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
1/13/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
1/14/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
1/15/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
1/16/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
1/17/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
1/18/2008	1650	0.0	0.0	0.0	1650	0.00	1.3	1.3
1/19/2008	1550	0.0	0.0	0.0	1550	0.00	1.1	1.1
1/20/2008	1450	0.0	0.0	0.0	1450	0.00	0.8	0.8
1/21/2008	1450	0.0	0.0	0.0	1450	0.00	0.8	0.8
1/22/2008	1250	0.0	0.0	0.0	1250	0.00	0.0	0.0
1/23/2008	1300	0.0	0.0	0.0	1300	0.00	0.3	0.3
1/24/2008	1350	0.0	0.0	0.0	1350	0.00	0.5	0.5
1/25/2008	1350	0.0	0.0	0.0	1350	0.00	0.5	0.5
1/26/2008	1300	0.0	0.0	0.0	1300	0.00	0.3	0.3
1/27/2008	1450	0.0	0.0	0.0	1450	0.00	0.8	0.8
1/28/2008	1650	0.0	0.0	0.0	1650	0.00	1.3	1.3
1/29/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
1/30/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
1/31/2008	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
2/1/2008	1490	0.0	0.0	0.0	1490	0.00	0.9	0.9
2/2/2008	1550	0.0	0.0	0.0	1550	0.00	1.1	1.1
2/3/2008	1550	0.0	0.0	0.0	1550	0.00	1.1	1.1
2/4/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
2/5/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/6/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/7/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
2/8/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
2/9/2008	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
2/10/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/11/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
2/12/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/13/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/14/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
2/15/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
2/16/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/17/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/18/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/19/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/20/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
2/21/2008	1750	0.0	0.0	0.0	1750	0.01	1.5	1.5
2/22/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/23/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
2/24/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
2/25/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
2/26/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
2/27/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/28/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
2/29/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/1/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/2/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/3/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/4/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/5/2008	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1
3/6/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
3/7/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
3/8/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
3/9/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
3/10/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
3/11/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/12/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/13/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/14/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
3/15/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
3/16/2008	1950	0.0	0.0	0.0	1950	0.01	1.9	1.9
3/17/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
3/18/2008	1890	0.0	0.0	0.0	1890	0.01	1.7	1.7
3/19/2008	1970	0.0	0.0	0.0	1970	0.01	1.9	1.9
3/20/2008	1920	0.0	0.0	0.0	1920	0.01	1.8	1.8
3/21/2008	2020	0.0	0.0	0.0	2020	0.01	2.0	2.0
3/22/2008	2080	0.0	0.0	0.0	2080	0.01	2.1	2.1
3/23/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
3/24/2008	1890	0.0	0.0	0.0	1890	0.01	1.7	1.7
3/25/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
3/26/2008	1970	0.0	0.0	0.0	1970	0.01	1.9	1.9
3/27/2008	1980	0.0	0.0	0.0	1980	0.01	1.9	1.9
3/28/2008	2110	0.0	0.0	0.0	2110	0.01	2.1	2.1
3/29/2008	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
3/30/2008	1980	0.0	0.0	0.0	1980	0.01	1.9	1.9
3/31/2008	1870	0.0	0.0	0.0	1870	0.01	1.7	1.7
4/1/2008	1870	0.0	0.0	0.0	1870	0.01	1.7	1.7
4/2/2008	1920	0.0	0.0	0.0	1920	0.01	1.8	1.8
4/3/2008	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
4/4/2008	1910	0.0	0.0	0.0	1910	0.01	1.8	1.8
4/5/2008	1820	0.0	0.0	0.0	1820	0.01	1.6	1.6
4/6/2008	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
4/7/2008	1940	0.0	0.0	0.0	1940	0.01	1.8	1.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
4/8/2008	1920	0.0	0.0	0.0	1920	0.01	1.8	1.8
4/9/2008	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
4/10/2008	1910	0.0	0.0	0.0	1910	0.01	1.8	1.8
4/11/2008	1890	0.0	0.0	0.0	1890	0.01	1.7	1.7
4/12/2008	1810	0.0	0.0	0.0	1810	0.01	1.6	1.6
4/13/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
4/14/2008	1770	0.0	0.0	0.0	1770	0.01	1.5	1.5
4/15/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
4/16/2008	2160	0.0	0.0	0.0	2160	0.01	2.2	2.2
4/17/2008	2160	0.0	0.0	0.0	2160	0.01	2.2	2.2
4/18/2008	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
4/19/2008	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
4/20/2008	1990	0.0	0.0	0.0	1990	0.01	1.9	1.9
4/21/2008	2290	0.0	0.0	0.0	2290	0.01	2.4	2.4
4/22/2008	2290	0.0	0.0	10.0	2300	0.01	2.4	2.4
4/23/2008	2050	0.0	0.0	10.0	2060	0.01	2.0	2.0
4/24/2008	2080	0.0	0.0	10.0	2090	0.01	2.1	2.1
4/25/2008	2490	0.0	0.0	10.0	2500	0.01	2.7	2.7
4/26/2008	2860	0.0	0.0	10.0	2870	0.02	3.2	3.2
4/27/2008	2830	0.0	0.0	6.2	2836	0.02	3.2	3.2
4/28/2008	2910	0.0	24.0	6.2	2940	0.02	3.3	3.3
4/29/2008	3130	0.0	24.2	6.2	3160	0.02	3.6	3.6
4/30/2008	4090	0.0	24.2	6.2	4120	0.04	5.1	5.1
5/1/2008	5030	100.6	24.5	6.2	5161	0.09	9.2	9.2
5/2/2008	5380	171.1	24.3	6.3	5582	0.12	11.3	11.3
5/3/2008	5600	175.4	24.5	6.3	5806	0.13	12.3	12.3
5/4/2008	5820	194.3	24.5	6.2	6045	0.15	13.4	13.4
5/5/2008	6180	239.1	24.4	6.2	6450	0.18	15.0	15.0
5/6/2008	6680	250.0	25.8	8.0	6964	0.22	17.0	17.0
5/7/2008	7280	272.3	27.3	10.0	7590	0.27	19.3	19.3
5/8/2008	7900	271.9	28.2	10.2	8210	0.31	21.4	21.4
5/9/2008	8600	0.0	32.7	11.0	8644	0.34	22.8	22.8
5/10/2008	8980	0.0	32.5	11.0	9024	0.37	24.0	24.0
5/11/2008	8680	0.0	32.5	6.5	8719	0.35	23.0	23.0
5/12/2008	8440	0.0	38.8	6.5	8485	0.33	22.3	22.3
5/13/2008	8550	0.0	37.1	6.4	8593	0.34	22.6	22.6
5/14/2008	8600	0.0	31.0	6.3	8637	0.34	22.8	22.8
5/15/2008	8170	187.1	31.3	8.3	8397	0.32	22.0	22.0
5/16/2008	7790	366.8	31.3	10.3	8198	0.31	21.4	21.4
5/17/2008	7910	383.3	31.7	10.3	8335	0.32	21.8	21.8
5/18/2008	8600	390.5	31.2	9.2	9031	0.37	24.0	24.0
5/19/2008	9370	411.7	31.3	9.2	9822	0.42	26.3	26.3
5/20/2008	9900	433.3	33.0	9.3	10376	0.46	27.9	26.8
5/21/2008	11100	432.9	36.1	9.5	11578	0.55	31.1	26.8
5/22/2008	12800	425.6	36.5	9.5	13272	0.66	35.2	26.8
5/23/2008	14400	386.9	36.5	9.5	14833	0.76	38.7	26.8
5/24/2008	14500	337.7	36.1	9.5	14883	0.77	38.8	26.8
5/25/2008	13600	337.0	36.0	9.3	13982	0.71	36.8	26.8
5/26/2008	13000	333.6	36.1	9.3	13379	0.67	35.4	26.8
5/27/2008	13400	340.3	34.6	9.3	13784	0.69	36.4	26.8
5/28/2008	13900	344.1	34.0	9.8	14288	0.73	37.5	26.8
5/29/2008	14400	344.4	33.9	10.3	14789	0.76	38.6	26.8
5/30/2008	15200	360.7	33.8	10.3	15605	0.81	40.3	26.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
5/31/2008	16200	360.3	33.7	10.3	16604	0.87	42.4	26.8
6/1/2008	17400	360.2	34.2	10.3	17805	0.95	44.7	26.8
6/2/2008	18600	379.2	37.0	10.3	19027	1.02	47.0	26.8
6/3/2008	18300	395.8	37.2	10.3	18743	1.01	46.5	26.8
6/4/2008	17300	394.2	40.2	10.3	17745	0.94	44.6	26.8
6/5/2008	16500	393.7	41.9	10.3	16946	0.90	43.0	26.8
6/6/2008	15900	394.8	43.9	10.3	16349	0.86	41.9	26.8
6/7/2008	15300	394.2	43.7	10.3	15748	0.82	40.6	26.8
6/8/2008	14100	395.0	43.2	10.3	14549	0.74	38.1	26.8
6/9/2008	12700	400.3	42.6	10.3	13153	0.65	34.9	26.8
6/10/2008	10700	414.0	42.7	10.3	11167	0.52	30.0	26.8
6/11/2008	9640	402.8	43.2	10.3	10096	0.44	27.1	26.8
6/12/2008	9840	372.7	43.4	10.3	10266	0.46	27.6	26.8
6/13/2008	10400	357.9	43.2	10.2	10811	0.49	29.1	26.8
6/14/2008	10000	370.1	42.8	10.2	10423	0.47	28.0	26.8
6/15/2008	9340	402.1	42.8	10.2	9795	0.42	26.2	26.2
6/16/2008	8920	413.8	45.5	10.2	9389	0.39	25.1	25.1
6/17/2008	8610	461.1	49.5	10.2	9131	0.38	24.3	24.3
6/18/2008	8300	490.5	53.6	10.1	8854	0.36	23.4	23.4
6/19/2008	8420	491.0	55.8	10.1	8977	0.37	23.8	23.8
6/20/2008	8720	476.7	54.5	10.1	9261	0.39	24.7	24.7
6/21/2008	8960	464.6	53.3	10.1	9488	0.40	25.3	25.3
6/22/2008	9150	465.0	54.6	10.0	9680	0.41	25.9	25.9
6/23/2008	9230	466.5	53.5	10.1	9760	0.42	26.1	26.1
6/24/2008	9040	472.9	52.4	10.1	9575	0.41	25.6	25.6
6/25/2008	9090	488.4	52.6	10.0	9641	0.41	25.8	25.8
6/26/2008	9150	486.0	51.9	10.0	9698	0.42	26.0	26.0
6/27/2008	9100	486.9	54.3	10.1	9651	0.41	25.8	25.8
6/28/2008	8840	486.4	54.9	10.0	9391	0.39	25.1	25.1
6/29/2008	8780	478.5	55.1	9.9	9323	0.39	24.9	24.9
6/30/2008	8760	430.9	55.2	9.8	9256	0.39	24.7	24.7
7/1/2008	8500	466.3	54.8	9.3	9030	0.37	24.0	24.0
7/2/2008	8350	484.6	55.0	9.1	8899	0.36	23.6	23.6
7/3/2008	8170	497.5	34.1	2.5	8704	0.35	23.0	23.0
7/4/2008	8000	503.6	42.0	5.0	8551	0.33	22.5	22.5
7/5/2008	7880	507.9	50.1	9.5	8448	0.33	22.2	22.2
7/6/2008	7900	502.4	48.9	9.6	8461	0.33	22.2	22.2
7/7/2008	7820	503.7	48.6	9.4	8382	0.32	22.0	22.0
7/8/2008	7530	505.2	48.7	8.2	8092	0.30	21.0	21.0
7/9/2008	7320	511.3	48.5	8.0	7888	0.29	20.3	20.3
7/10/2008	7150	509.1	50.1	7.9	7717	0.27	19.7	19.7
7/11/2008	7030	486.5	48.1	7.7	7572	0.26	19.2	19.2
7/12/2008	6950	480.4	48.2	8.4	7487	0.26	18.9	18.9
7/13/2008	7000	478.5	48.4	9.0	7536	0.26	19.1	19.1
7/14/2008	6770	483.1	48.4	9.5	7311	0.25	18.3	18.3
7/15/2008	6310	497.9	47.3	9.4	6864	0.21	16.7	16.7
7/16/2008	6030	498.2	47.1	9.2	6585	0.19	15.6	15.6
7/17/2008	5860	496.7	46.8	9.6	6413	0.18	14.9	14.9
7/18/2008	6040	498.8	47.1	9.5	6595	0.19	15.6	15.6
7/19/2008	6460	498.0	47.9	9.3	7015	0.22	17.2	17.2
7/20/2008	6670	490.5	50.6	9.1	7220	0.24	18.0	18.0
7/21/2008	6700	481.7	53.3	9.0	7244	0.24	18.1	18.1
7/22/2008	6500	459.2	54.0	8.2	7021	0.22	17.3	17.3

Date	SR at Shelley	SR Valley	Woodville	Woodville	At Gem Lake Diversion:			(limited to
	USGS flow	Canal	Canal	Siphon	River Q	dH	Diversion	26.8 cfs)
7/23/2008	6620	449.5	53.2	8.2	7131	0.23	17.7	17.7
7/24/2008	6640	448.9	53.0	8.4	7150	0.23	17.7	17.7
7/25/2008	6820	451.7	52.8	8.6	7333	0.25	18.4	18.4
7/26/2008	6960	449.3	52.2	8.6	7470	0.26	18.9	18.9
7/27/2008	7160	450.9	52.6	8.7	7672	0.27	19.6	19.6
7/28/2008	7370	429.8	51.4	8.7	7860	0.29	20.2	20.2
7/29/2008	7420	410.6	49.6	8.8	7889	0.29	20.3	20.3
7/30/2008	7260	410.6	49.4	8.7	7729	0.28	19.8	19.8
7/31/2008	7470	405.0	48.7	8.6	7932	0.29	20.5	20.5
8/1/2008	7560	406.0	44.6	8.5	8019	0.30	20.8	20.8
8/2/2008	7810	393.5	44.2	8.6	8256	0.31	21.5	21.5
8/3/2008	7870	379.7	44.3	8.7	8303	0.32	21.7	21.7
8/4/2008	8110	395.2	44.0	8.6	8558	0.34	22.5	22.5
8/5/2008	7980	406.3	43.5	8.5	8438	0.33	22.1	22.1
8/6/2008	7980	421.8	40.2	8.3	8450	0.33	22.2	22.2
8/7/2008	8060	419.8	38.3	8.2	8526	0.33	22.4	22.4
8/8/2008	8100	417.4	37.6	8.1	8563	0.34	22.5	22.5
8/9/2008	8270	415.3	36.8	8.0	8730	0.35	23.1	23.1
8/10/2008	8750	408.3	35.8	7.9	9202	0.38	24.5	24.5
8/11/2008	8950	420.1	35.8	8.0	9414	0.40	25.1	25.1
8/12/2008	8950	455.5	35.9	7.9	9449	0.40	25.2	25.2
8/13/2008	8910	454.2	36.0	7.8	9408	0.40	25.1	25.1
8/14/2008	8820	443.2	35.5	7.7	9306	0.39	24.8	24.8
8/15/2008	8730	443.3	33.5	7.5	9214	0.38	24.5	24.5
8/16/2008	8870	444.2	36.4	7.9	9358	0.39	25.0	25.0
8/17/2008	8850	443.5	40.6	7.9	9342	0.39	24.9	24.9
8/18/2008	8910	443.4	40.8	7.9	9402	0.40	25.1	25.1
8/19/2008	8730	442.8	40.3	7.9	9221	0.38	24.6	24.6
8/20/2008	8230	442.9	40.1	7.9	8721	0.35	23.0	23.0
8/21/2008	8140	443.7	40.4	7.9	8632	0.34	22.7	22.7
8/22/2008	8050	443.3	39.7	7.9	8541	0.33	22.5	22.5
8/23/2008	7870	442.2	33.5	7.8	8353	0.32	21.9	21.9
8/24/2008	7910	444.0	31.6	7.8	8393	0.32	22.0	22.0
8/25/2008	7940	441.3	31.6	7.8	8421	0.33	22.1	22.1
8/26/2008	7810	441.8	31.6	7.8	8291	0.32	21.7	21.7
8/27/2008	7560	439.5	31.2	7.8	8038	0.30	20.8	20.8
8/28/2008	7310	438.8	31.1	7.8	7788	0.28	20.0	20.0
8/29/2008	6390	420.4	31.1	7.8	6849	0.21	16.6	16.6
8/30/2008	6090	406.6	31.2	7.6	6535	0.19	15.4	15.4
8/31/2008	6060	409.0	31.5	7.6	6508	0.19	15.3	15.3
9/1/2008	6340	383.9	31.5	7.7	6763	0.21	16.3	16.3
9/2/2008	6400	364.3	31.3	7.6	6803	0.21	16.4	16.4
9/3/2008	6590	350.3	31.6	7.6	6979	0.22	17.1	17.1
9/4/2008	6830	342.9	33.1	7.6	7214	0.24	18.0	18.0
9/5/2008	6930	343.4	35.7	7.6	7317	0.25	18.3	18.3
9/6/2008	7030	343.2	38.6	7.5	7419	0.25	18.7	18.7
9/7/2008	7120	342.5	39.3	7.4	7509	0.26	19.0	19.0
9/8/2008	7240	345.6	37.2	7.3	7630	0.27	19.4	19.4
9/9/2008	7420	347.3	38.0	7.3	7813	0.28	20.1	20.1
9/10/2008	7240	346.2	37.8	7.5	7631	0.27	19.4	19.4
9/11/2008	7050	345.1	37.3	7.1	7439	0.25	18.8	18.8
9/12/2008	7020	345.3	37.5	6.8	7410	0.25	18.7	18.7
9/13/2008	7010	346.7	37.4	6.8	7401	0.25	18.6	18.6

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
9/14/2008	7050	352.4	35.1	6.9	7444	0.26	18.8	18.8
9/15/2008	6880	369.4	30.4	6.9	7287	0.24	18.2	18.2
9/16/2008	6880	363.6	30.0	6.9	7281	0.24	18.2	18.2
9/17/2008	6370	355.0	29.4	6.8	6761	0.21	16.3	16.3
9/18/2008	6170	354.7	29.7	6.8	6561	0.19	15.5	15.5
9/19/2008	6160	356.7	31.2	6.8	6555	0.19	15.5	15.5
9/20/2008	6140	355.6	33.2	6.8	6536	0.19	15.4	15.4
9/21/2008	6160	349.7	33.4	6.6	6550	0.19	15.4	15.4
9/22/2008	6350	329.8	34.0	6.6	6720	0.20	16.1	16.1
9/23/2008	6670	311.7	33.8	6.5	7022	0.22	17.3	17.3
9/24/2008	6770	302.1	31.5	6.5	7110	0.23	17.6	17.6
9/25/2008	6780	302.0	30.7	7.0	7120	0.23	17.6	17.6
9/26/2008	6350	299.1	28.0	7.6	6685	0.20	16.0	16.0
9/27/2008	5920	299.6	26.2	7.6	6253	0.17	14.2	14.2
9/28/2008	5720	300.1	26.2	6.2	6052	0.15	13.4	13.4
9/29/2008	5770	301.3	26.2	6.2	6104	0.16	13.6	13.6
9/30/2008	5680	298.8	25.9	6.2	6011	0.15	13.2	13.2
10/1/2008	5380	300.3	26.2	6.2	5713	0.13	11.9	11.9
10/2/2008	5080	300.5	28.4	6.1	5415	0.11	10.5	10.5
10/3/2008	4860	300.6	28.5	6.1	5195	0.09	9.4	9.4
10/4/2008	5030	278.9	28.8	6.1	5344	0.10	10.1	10.1
10/5/2008	5230	259.9	28.2	6.1	5524	0.11	11.0	11.0
10/6/2008	5210	259.3	25.8	6.1	5501	0.11	10.9	10.9
10/7/2008	5090	246.7	23.6	6.1	5366	0.10	10.2	10.2
10/8/2008	4950	235.7	22.3	6.1	5214	0.09	9.5	9.5
10/9/2008	4660	234.9	22.2	5.4	4922	0.07	8.1	8.1
10/10/2008	4590	235.0	22.5	5.4	4853	0.07	7.9	7.9
10/11/2008	4160	222.1	22.0	5.4	4409	0.05	6.3	6.3
10/12/2008	3950	193.2	22.1	5.4	4171	0.04	5.3	5.3
10/13/2008	3900	179.5	22.3	5.4	4107	0.03	5.0	5.0
10/14/2008	3690	179.1	24.7	5.4	3899	0.03	4.5	4.5
10/15/2008	3630	99.6	25.0	5.4	3760	0.03	4.3	4.3
10/16/2008	3500	14.9	24.9	5.4	3545	0.03	4.1	4.1
10/17/2008	3320	14.9	24.9	5.4	3365	0.02	3.8	3.8
10/18/2008	3260	14.9	24.6	5.4	3305	0.02	3.8	3.8
10/19/2008	3320	14.9	16.7	5.4	3357	0.02	3.8	3.8
10/20/2008	3360	15.0	2.2	5.4	3382	0.02	3.9	3.9
10/21/2008	3530	14.9	0.0	5.4	3550	0.03	4.1	4.1
10/22/2008	3500	10.1	0.0	5.4	3515	0.02	4.0	4.0
10/23/2008	3590	0.0	0.0	0.0	3590	0.03	4.1	4.1
10/24/2008	3690	0.0	0.0	0.0	3690	0.03	4.2	4.2
10/25/2008	3910	0.0	0.0	0.0	3910	0.03	4.5	4.5
10/26/2008	3920	0.0	0.0	0.0	3920	0.03	4.5	4.5
10/27/2008	3870	0.0	0.0	0.0	3870	0.03	4.4	4.4
10/28/2008	3890	0.0	0.0	0.0	3890	0.03	4.5	4.5
10/29/2008	3960	0.0	0.0	0.0	3960	0.03	4.5	4.5
10/30/2008	3830	0.0	0.0	0.0	3830	0.03	4.4	4.4
10/31/2008	3900	0.0	0.0	0.0	3900	0.03	4.5	4.5
11/1/2008	3910	0.0	0.0	0.0	3910	0.03	4.5	4.5
11/2/2008	4090	0.0	0.0	0.0	4090	0.03	5.0	5.0
11/3/2008	4000	0.0	0.0	0.0	4000	0.03	4.6	4.6
11/4/2008	4100	0.0	0.0	0.0	4100	0.03	5.0	5.0
11/5/2008	4140	0.0	0.0	0.0	4140	0.04	5.2	5.2

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
11/6/2008	3870	0.0	0.0	0.0	3870	0.03	4.4	4.4
11/7/2008	3560	0.0	0.0	0.0	3560	0.03	4.1	4.1
11/8/2008	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
11/9/2008	3260	0.0	0.0	0.0	3260	0.02	3.7	3.7
11/10/2008	3250	0.0	0.0	0.0	3250	0.02	3.7	3.7
11/11/2008	3240	0.0	0.0	0.0	3240	0.02	3.7	3.7
11/12/2008	3210	0.0	0.0	0.0	3210	0.02	3.7	3.7
11/13/2008	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
11/14/2008	3430	0.0	0.0	0.0	3430	0.02	3.9	3.9
11/15/2008	3530	0.0	0.0	0.0	3530	0.02	4.0	4.0
11/16/2008	3390	0.0	0.0	0.0	3390	0.02	3.9	3.9
11/17/2008	3240	0.0	0.0	0.0	3240	0.02	3.7	3.7
11/18/2008	3140	0.0	0.0	0.0	3140	0.02	3.6	3.6
11/19/2008	3140	0.0	0.0	0.0	3140	0.02	3.6	3.6
11/20/2008	2780	0.0	0.0	0.0	2780	0.02	3.1	3.1
11/21/2008	2820	0.0	0.0	0.0	2820	0.02	3.2	3.2
11/22/2008	2670	0.0	0.0	0.0	2670	0.02	3.0	3.0
11/23/2008	2690	0.0	0.0	0.0	2690	0.02	3.0	3.0
11/24/2008	2640	0.0	0.0	0.0	2640	0.02	2.9	2.9
11/25/2008	2650	0.0	0.0	0.0	2650	0.02	2.9	2.9
11/26/2008	2460	0.0	0.0	0.0	2460	0.01	2.7	2.7
11/27/2008	2530	0.0	0.0	0.0	2530	0.01	2.8	2.8
11/28/2008	2590	0.0	0.0	0.0	2590	0.01	2.8	2.8
11/29/2008	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
11/30/2008	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
12/1/2008	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
12/2/2008	2590	0.0	0.0	0.0	2590	0.01	2.8	2.8
12/3/2008	2520	0.0	0.0	0.0	2520	0.01	2.7	2.7
12/4/2008	2550	0.0	0.0	0.0	2550	0.01	2.8	2.8
12/5/2008	2490	0.0	0.0	0.0	2490	0.01	2.7	2.7
12/6/2008	2460	0.0	0.0	0.0	2460	0.01	2.7	2.7
12/7/2008	2350	0.0	0.0	0.0	2350	0.01	2.5	2.5
12/8/2008	2620	0.0	0.0	0.0	2620	0.01	2.9	2.9
12/9/2008	2450	0.0	0.0	0.0	2450	0.01	2.6	2.6
12/10/2008	2450	0.0	0.0	0.0	2450	0.01	2.6	2.6
12/11/2008	2490	0.0	0.0	0.0	2490	0.01	2.7	2.7
12/12/2008	2390	0.0	0.0	0.0	2390	0.01	2.6	2.6
12/13/2008	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
12/14/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
12/15/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/16/2008	1850	0.0	0.0	0.0	1850	0.01	1.7	1.7
12/17/2008	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/18/2008	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/19/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
12/20/2008	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
12/21/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/22/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/23/2008	1600	0.0	0.0	0.0	1600	0.00	1.2	1.2
12/24/2008	1600	0.0	0.0	0.0	1600	0.00	1.2	1.2
12/25/2008	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
12/26/2008	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
12/27/2008	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
12/28/2008	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
12/29/2008	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1
12/30/2008	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3
12/31/2008	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/1/2009	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
1/2/2009	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
1/3/2009	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
1/4/2009	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
1/5/2009	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
1/6/2009	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
1/7/2009	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1
1/8/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/9/2009	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
1/10/2009	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
1/11/2009	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
1/12/2009	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
1/13/2009	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
1/14/2009	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
1/15/2009	2700	0.0	0.0	0.0	2700	0.02	3.0	3.0
1/16/2009	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
1/17/2009	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
1/18/2009	2400	0.0	0.0	0.0	2400	0.01	2.6	2.6
1/19/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/20/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/21/2009	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3
1/22/2009	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3
1/23/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/24/2009	2400	0.0	0.0	0.0	2400	0.01	2.6	2.6
1/25/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
1/26/2009	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
1/27/2009	1600	0.0	0.0	0.0	1600	0.00	1.2	1.2
1/28/2009	1500	0.0	0.0	0.0	1500	0.00	0.9	0.9
1/29/2009	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
1/30/2009	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
1/31/2009	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/1/2009	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/2/2009	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
2/3/2009	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
2/4/2009	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/5/2009	2150	0.0	0.0	0.0	2150	0.01	2.2	2.2
2/6/2009	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3
2/7/2009	2150	0.0	0.0	0.0	2150	0.01	2.2	2.2
2/8/2009	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1
2/9/2009	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
2/10/2009	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
2/11/2009	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
2/12/2009	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/13/2009	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
2/14/2009	1700	0.0	0.0	0.0	1700	0.00	1.4	1.4
2/15/2009	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
2/16/2009	2150	0.0	0.0	0.0	2150	0.01	2.2	2.2
2/17/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
2/18/2009	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
2/19/2009	2200	0.0	0.0	0.0	2200	0.01	2.3	2.3

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
2/20/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
2/21/2009	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
2/22/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
2/23/2009	2470	0.0	0.0	0.0	2470	0.01	2.7	2.7
2/24/2009	2620	0.0	0.0	0.0	2620	0.01	2.9	2.9
2/25/2009	2640	0.0	0.0	0.0	2640	0.02	2.9	2.9
2/26/2009	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
2/27/2009	2450	0.0	0.0	0.0	2450	0.01	2.6	2.6
2/28/2009	2350	0.0	0.0	0.0	2350	0.01	2.5	2.5
3/1/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
3/2/2009	2350	0.0	0.0	0.0	2350	0.01	2.5	2.5
3/3/2009	2450	0.0	0.0	0.0	2450	0.01	2.6	2.6
3/4/2009	2570	0.0	0.0	0.0	2570	0.01	2.8	2.8
3/5/2009	2580	0.0	0.0	0.0	2580	0.01	2.8	2.8
3/6/2009	2680	0.0	0.0	0.0	2680	0.02	3.0	3.0
3/7/2009	2560	0.0	0.0	0.0	2560	0.01	2.8	2.8
3/8/2009	2380	0.0	0.0	0.0	2380	0.01	2.5	2.5
3/9/2009	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
3/10/2009	2440	0.0	0.0	0.0	2440	0.01	2.6	2.6
3/11/2009	2540	0.0	0.0	0.0	2540	0.01	2.8	2.8
3/12/2009	2470	0.0	0.0	0.0	2470	0.01	2.7	2.7
3/13/2009	2240	0.0	0.0	0.0	2240	0.01	2.3	2.3
3/14/2009	2210	0.0	0.0	0.0	2210	0.01	2.3	2.3
3/15/2009	2080	0.0	0.0	0.0	2080	0.01	2.1	2.1
3/16/2009	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
3/17/2009	2430	0.0	0.0	0.0	2430	0.01	2.6	2.6
3/18/2009	2720	0.0	0.0	0.0	2720	0.02	3.0	3.0
3/19/2009	2730	0.0	0.0	0.0	2730	0.02	3.0	3.0
3/20/2009	2720	0.0	0.0	0.0	2720	0.02	3.0	3.0
3/21/2009	2590	0.0	0.0	0.0	2590	0.01	2.8	2.8
3/22/2009	2620	0.0	0.0	0.0	2620	0.01	2.9	2.9
3/23/2009	2910	0.0	0.0	0.0	2910	0.02	3.3	3.3
3/24/2009	2870	0.0	0.0	0.0	2870	0.02	3.2	3.2
3/25/2009	2740	0.0	0.0	0.0	2740	0.02	3.1	3.1
3/26/2009	2660	0.0	0.0	0.0	2660	0.02	2.9	2.9
3/27/2009	2320	0.0	0.0	0.0	2320	0.01	2.5	2.5
3/28/2009	2190	0.0	0.0	0.0	2190	0.01	2.3	2.3
3/29/2009	2210	0.0	0.0	0.0	2210	0.01	2.3	2.3
3/30/2009	2410	0.0	0.0	0.0	2410	0.01	2.6	2.6
3/31/2009	2240	0.0	0.0	0.0	2240	0.01	2.3	2.3
4/1/2009	2300	0.0	0.0	0.0	2300	0.01	2.4	2.4
4/2/2009	2340	0.0	0.0	0.0	2340	0.01	2.5	2.5
4/3/2009	2870	0.0	0.0	0.0	2870	0.02	3.2	3.2
4/4/2009	3710	0.0	0.0	0.0	3710	0.03	4.3	4.3
4/5/2009	4520	0.0	0.0	0.0	4520	0.05	6.7	6.7
4/6/2009	5500	0.0	0.0	0.0	5500	0.11	10.9	10.9
4/7/2009	6330	0.0	0.0	0.0	6330	0.17	14.6	14.6
4/8/2009	7090	0.0	0.0	0.0	7090	0.23	17.5	17.5
4/9/2009	7380	0.0	0.0	0.0	7380	0.25	18.6	18.6
4/10/2009	7540	0.0	0.0	0.0	7540	0.26	19.1	19.1
4/11/2009	7540	0.0	0.0	0.0	7540	0.26	19.1	19.1
4/12/2009	8310	0.0	0.0	0.0	8310	0.32	21.7	21.7
4/13/2009	9290	0.0	0.0	0.0	9290	0.39	24.8	24.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
4/14/2009	10700	0.0	0.0	0.0	10700	0.49	28.8	26.8
4/15/2009	11900	0.0	0.0	0.0	11900	0.57	31.9	26.8
4/16/2009	13500	0.0	0.0	0.0	13500	0.67	35.7	26.8
4/17/2009	15300	0.0	0.0	0.0	15300	0.79	39.7	26.8
4/18/2009	15900	0.0	0.0	0.0	15900	0.83	40.9	26.8
4/19/2009	16100	0.0	0.0	0.0	16100	0.84	41.4	26.8
4/20/2009	16400	0.0	0.0	0.0	16400	0.86	42.0	26.8
4/21/2009	17000	67.0	0.0	0.0	17067	0.90	43.3	26.8
4/22/2009	17500	65.8	0.0	0.0	17566	0.93	44.3	26.8
4/23/2009	18300	0.0	0.0	0.0	18300	0.98	45.6	26.8
4/24/2009	19100	0.0	2.8	0.0	19103	1.03	47.1	26.8
4/25/2009	19200	138.2	18.1	0.0	19356	1.04	47.6	26.8
4/26/2009	18500	0.0	26.8	0.0	18527	0.99	46.1	26.8
4/27/2009	17900	137.8	27.3	0.0	18065	0.96	45.2	26.8
4/28/2009	16900	0.0	22.9	0.0	16923	0.89	43.0	26.8
4/29/2009	16700	236.9	22.3	0.0	16959	0.90	43.1	26.8
4/30/2009	16600	253.1	21.6	0.0	16875	0.89	42.9	26.8
5/1/2009	16500	267.4	21.7	0.0	16789	0.89	42.7	26.8
5/2/2009	17000	267.0	22.4	0.0	17289	0.92	43.7	26.8
5/3/2009	16600	266.8	24.1	0.0	16891	0.89	42.9	26.8
5/4/2009	16300	267.7	24.4	0.0	16592	0.87	42.3	26.8
5/5/2009	18000	267.7	24.2	0.0	18292	0.98	45.6	26.8
5/6/2009	18600	267.6	20.3	0.0	18888	1.01	46.7	26.8
5/7/2009	19100	266.8	17.5	0.0	19384	1.04	47.6	26.8
5/8/2009	19500	266.3	17.5	0.0	19784	1.07	48.3	26.8
5/9/2009	19400	266.2	17.7	0.0	19684	1.06	48.2	26.8
5/10/2009	19200	278.0	17.8	0.0	19496	1.05	47.8	26.8
5/11/2009	18700	303.5	17.7	0.0	19021	1.02	47.0	26.8
5/12/2009	18000	302.8	17.5	0.0	18320	0.98	45.7	26.8
5/13/2009	16600	336.8	19.5	9.9	16966	0.90	43.1	26.8
5/14/2009	15600	345.6	21.4	9.9	15977	0.83	41.1	26.8
5/15/2009	14200	366.5	25.6	9.9	14602	0.75	38.2	26.8
5/16/2009	13100	365.6	30.6	9.9	13506	0.68	35.7	26.8
5/17/2009	12400	381.0	33.4	11.7	12826	0.63	34.1	26.8
5/18/2009	12200	391.4	34.0	11.7	12637	0.62	33.7	26.8
5/19/2009	11700	414.9	36.3	11.7	12163	0.59	32.5	26.8
5/20/2009	11500	430.6	36.6	11.4	11979	0.57	32.1	26.8
5/21/2009	11900	438.2	37.4	11.4	12387	0.60	33.1	26.8
5/22/2009	12000	463.1	43.3	11.4	12518	0.61	33.4	26.8
5/23/2009	11700	461.2	46.8	11.4	12219	0.59	32.7	26.8
5/24/2009	11500	449.6	46.8	11.4	12008	0.58	32.1	26.8
5/25/2009	11600	448.0	47.3	11.4	12107	0.58	32.4	26.8
5/26/2009	11700	461.0	47.6	11.4	12220	0.59	32.7	26.8
5/27/2009	11600	459.9	47.4	11.4	12119	0.58	32.4	26.8
5/28/2009	11400	459.2	46.9	11.4	11917	0.57	31.9	26.8
5/29/2009	10800	458.7	46.9	11.5	11317	0.53	30.4	26.8
5/30/2009	10000	459.5	49.0	11.5	10520	0.47	28.3	26.8
5/31/2009	9470	459.8	47.8	11.5	9989	0.44	26.8	26.8
6/1/2009	9400	460.0	47.4	11.5	9919	0.43	26.6	26.6
6/2/2009	9250	420.8	47.1	11.5	9729	0.42	26.0	26.0
6/3/2009	9760	401.4	46.9	11.5	10220	0.45	27.4	26.8
6/4/2009	9970	401.0	47.0	11.5	10429	0.47	28.0	26.8
6/5/2009	9740	400.7	46.9	11.2	10199	0.45	27.4	26.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
6/6/2009	9610	402.1	47.5	11.2	10071	0.44	27.0	26.8
6/7/2009	10800	356.2	48.0	11.2	11215	0.52	30.1	26.8
6/8/2009	11800	316.5	47.8	11.2	12176	0.59	32.6	26.8
6/9/2009	12600	315.8	47.6	11.5	12975	0.64	34.5	26.8
6/10/2009	12900	315.5	45.2	11.4	13272	0.66	35.2	26.8
6/11/2009	13100	289.2	38.4	11.4	13439	0.67	35.6	26.8
6/12/2009	13500	275.7	31.5	11.4	13819	0.70	36.4	26.8
6/13/2009	13600	275.1	29.1	11.3	13915	0.70	36.7	26.8
6/14/2009	13600	275.8	29.0	11.2	13916	0.70	36.7	26.8
6/15/2009	13800	275.5	28.8	11.1	14115	0.72	37.1	26.8
6/16/2009	14100	275.8	29.6	11.5	14417	0.73	37.8	26.8
6/17/2009	14200	305.8	33.8	11.4	14551	0.74	38.1	26.8
6/18/2009	16800	284.3	39.3	11.4	17135	0.91	43.4	26.8
6/19/2009	19800	258.1	39.3	11.3	20109	1.09	48.9	26.8
6/20/2009	22000	257.4	39.1	11.2	22308	1.21	52.6	26.8
6/21/2009	22500	257.3	39.1	11.1	22807	1.24	53.4	26.8
6/22/2009	23000	257.4	39.3	11.1	23308	1.27	54.1	26.8
6/23/2009	25500	257.2	38.7	10.9	25807	1.40	57.9	26.8
6/24/2009	26700	229.5	37.3	10.8	26978	1.46	59.5	26.8
6/25/2009	26500	305.9	35.6	10.8	26852	1.46	59.3	26.8
6/26/2009	25000	358.5	36.4	10.7	25406	1.38	57.3	26.8
6/27/2009	25000	347.9	45.5	10.6	25404	1.38	57.3	26.8
6/28/2009	25000	359.7	51.5	10.5	25422	1.38	57.3	26.8
6/29/2009	25200	388.1	51.6	10.5	25650	1.39	57.6	26.8
6/30/2009	24500	420.5	50.4	10.6	24981	1.36	56.7	26.8
7/1/2009	23500	442.5	49.1	10.4	24002	1.31	55.2	26.8
7/2/2009	22000	442.0	49.1	10.4	22502	1.22	52.9	26.8
7/3/2009	20400	436.1	49.4	10.3	20896	1.13	50.2	26.8
7/4/2009	18800	420.5	49.0	10.1	19280	1.04	47.4	26.8
7/5/2009	17800	417.5	48.1	10.0	18276	0.98	45.6	26.8
7/6/2009	16500	420.8	48.4	10.4	16980	0.90	43.1	26.8
7/7/2009	14500	431.1	48.1	10.5	14990	0.77	39.0	26.8
7/8/2009	13000	431.4	48.4	10.4	13490	0.67	35.7	26.8
7/9/2009	11100	433.8	50.1	10.0	11594	0.55	31.1	26.8
7/10/2009	10400	452.0	51.4	9.9	10913	0.50	29.3	26.8
7/11/2009	9330	449.7	29.7	9.8	9819	0.42	26.3	26.3
7/12/2009	8220	451.8	27.0	9.7	8708	0.35	23.0	23.0
7/13/2009	7540	447.2	48.5	9.6	8045	0.30	20.9	20.9
7/14/2009	6850	449.5	50.7	9.9	7360	0.25	18.5	18.5
7/15/2009	6450	450.5	53.8	9.8	6964	0.22	17.0	17.0
7/16/2009	6050	449.3	55.1	9.7	6564	0.19	15.5	15.5
7/17/2009	5790	453.1	54.8	9.6	6307	0.17	14.5	14.5
7/18/2009	5440	455.1	55.0	9.5	5959	0.15	13.0	13.0
7/19/2009	5590	449.0	56.0	9.3	6104	0.16	13.6	13.6
7/20/2009	5760	432.4	55.8	9.2	6257	0.17	14.3	14.3
7/21/2009	5650	425.5	57.5	9.6	6143	0.16	13.8	13.8
7/22/2009	5690	422.4	60.1	9.6	6182	0.16	13.9	13.9
7/23/2009	5800	422.1	59.7	9.5	6291	0.17	14.4	14.4
7/24/2009	6010	419.2	59.7	9.5	6498	0.19	15.2	15.2
7/25/2009	6260	415.5	59.4	9.4	6744	0.20	16.2	16.2
7/26/2009	6480	412.8	59.2	9.4	6961	0.22	17.0	17.0
7/27/2009	6850	415.8	58.0	9.3	7333	0.25	18.4	18.4
7/28/2009	6540	417.8	56.6	9.7	7024	0.22	17.3	17.3

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
7/29/2009	6150	444.6	56.4	9.6	6661	0.20	15.9	15.9
7/30/2009	6160	449.7	56.1	9.6	6675	0.20	15.9	15.9
7/31/2009	6350	436.3	56.0	9.6	6852	0.21	16.6	16.6
8/1/2009	6030	425.3	52.2	9.5	6517	0.19	15.3	15.3
8/2/2009	5950	427.0	49.7	9.5	6436	0.18	15.0	15.0
8/3/2009	6130	428.2	49.9	9.4	6617	0.19	15.7	15.7
8/4/2009	6080	427.4	49.6	9.8	6567	0.19	15.5	15.5
8/5/2009	5510	420.2	49.0	9.7	5989	0.15	13.1	13.1
8/6/2009	5410	418.1	49.4	9.7	5887	0.14	12.7	12.7
8/7/2009	5670	407.8	49.4	9.6	6137	0.16	13.8	13.8
8/8/2009	5960	398.9	45.9	9.6	6414	0.18	14.9	14.9
8/9/2009	6410	400.3	44.5	9.3	6864	0.21	16.7	16.7
8/10/2009	5970	393.3	44.4	9.2	6417	0.18	14.9	14.9
8/11/2009	6030	379.1	44.9	9.4	6463	0.18	15.1	15.1
8/12/2009	5120	375.1	44.0	9.5	5549	0.12	11.1	11.1
8/13/2009	4670	386.2	44.6	9.5	5110	0.08	8.7	8.7
8/14/2009	4120	392.1	45.6	9.5	4567	0.06	6.9	6.9
8/15/2009	4110	393.8	46.2	9.5	4560	0.05	6.8	6.8
8/16/2009	4360	393.8	44.5	8.8	4807	0.07	7.7	7.7
8/17/2009	4570	395.2	38.1	8.8	5012	0.08	8.4	8.4
8/18/2009	4360	392.9	36.3	8.9	4798	0.07	7.7	7.7
8/19/2009	4210	404.1	36.0	8.9	4659	0.06	7.2	7.2
8/20/2009	4020	406.4	35.0	8.9	4470	0.05	6.5	6.5
8/21/2009	4130	415.3	36.9	8.9	4591	0.06	6.9	6.9
8/22/2009	4560	418.5	37.8	9.0	5025	0.08	8.4	8.4
8/23/2009	4940	404.6	37.5	9.0	5391	0.10	10.4	10.4
8/24/2009	5380	373.8	37.9	9.0	5801	0.13	12.3	12.3
8/25/2009	5600	372.5	38.1	9.1	6020	0.15	13.3	13.3
8/26/2009	5890	372.6	40.3	9.1	6312	0.17	14.5	14.5
8/27/2009	5870	371.0	38.6	9.1	6289	0.17	14.4	14.4
8/28/2009	5760	369.5	38.2	9.1	6177	0.16	13.9	13.9
8/29/2009	5020	369.0	37.6	9.2	5436	0.11	10.6	10.6
8/30/2009	4900	370.3	37.3	9.2	5317	0.10	10.0	10.0
8/31/2009	4910	371.1	37.7	9.2	5328	0.10	10.0	10.0
9/1/2009	4870	365.2	37.9	9.2	5282	0.10	9.8	9.8
9/2/2009	5010	349.8	37.8	9.2	5407	0.10	10.4	10.4
9/3/2009	4820	334.6	37.7	9.2	5202	0.09	9.4	9.4
9/4/2009	4730	345.5	36.9	9.2	5122	0.08	9.0	9.0
9/5/2009	4630	345.8	38.5	9.2	5024	0.08	8.4	8.4
9/6/2009	4490	346.3	41.5	9.2	4887	0.07	8.0	8.0
9/7/2009	4490	348.4	42.5	9.2	4890	0.07	8.0	8.0
9/8/2009	4470	348.8	42.9	9.2	4871	0.07	7.9	7.9
9/9/2009	4610	350.0	47.6	9.2	5017	0.08	8.4	8.4
9/10/2009	4660	348.8	49.0	9.2	5067	0.08	8.6	8.6
9/11/2009	4330	348.2	45.8	9.2	4733	0.06	7.4	7.4
9/12/2009	4050	351.6	44.6	9.2	4455	0.05	6.4	6.4
9/13/2009	4060	345.5	44.5	9.2	4459	0.05	6.5	6.5
9/14/2009	4280	320.8	43.2	9.2	4653	0.06	7.2	7.2
9/15/2009	4410	302.5	41.4	9.2	4763	0.06	7.5	7.5
9/16/2009	4580	310.3	41.3	8.8	4940	0.07	8.2	8.2
9/17/2009	4340	315.4	41.3	8.5	4705	0.06	7.3	7.3
9/18/2009	4220	325.2	42.0	8.4	4596	0.06	7.0	7.0
9/19/2009	4030	324.9	43.8	6.5	4405	0.05	6.2	6.2

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
9/20/2009	3820	324.2	44.2	4.7	4193	0.04	5.4	5.4
9/21/2009	3970	304.5	44.8	4.7	4324	0.04	5.9	5.9
9/22/2009	3930	288.2	43.4	4.7	4266	0.04	5.7	5.7
9/23/2009	4150	290.5	42.6	4.7	4488	0.05	6.6	6.6
9/24/2009	3970	290.9	42.7	4.7	4308	0.04	5.9	5.9
9/25/2009	4060	292.0	43.1	4.7	4400	0.05	6.2	6.2
9/26/2009	4060	291.2	43.1	4.7	4399	0.05	6.2	6.2
9/27/2009	4100	292.8	41.7	4.0	4438	0.05	6.4	6.4
9/28/2009	4170	293.0	41.0	4.0	4508	0.05	6.6	6.6
9/29/2009	4200	293.9	41.2	4.6	4540	0.05	6.8	6.8
9/30/2009	4170	261.9	35.8	4.6	4472	0.05	6.5	6.5
10/1/2009	4560	236.9	32.8	4.6	4834	0.07	7.8	7.8
10/2/2009	4590	237.9	29.9	4.7	4862	0.07	7.9	7.9
10/3/2009	4500	237.7	28.1	4.7	4770	0.06	7.6	7.6
10/4/2009	3870	223.9	28.2	4.7	4127	0.04	5.1	5.1
10/5/2009	4000	173.9	25.2	4.7	4204	0.04	5.4	5.4
10/6/2009	4160	173.5	23.4	2.2	4359	0.05	6.1	6.1
10/7/2009	3970	173.4	23.4	2.2	4169	0.04	5.3	5.3
10/8/2009	3710	172.5	23.2	2.2	3908	0.03	4.5	4.5
10/9/2009	3570	173.6	23.4	2.2	3769	0.03	4.3	4.3
10/10/2009	3150	172.7	23.1	2.2	3348	0.02	3.8	3.8
10/11/2009	3230	173.2	23.3	2.2	3429	0.02	3.9	3.9
10/12/2009	3100	172.9	21.3	2.2	3296	0.02	3.8	3.8
10/13/2009	3210	173.9	18.8	2.2	3405	0.02	3.9	3.9
10/14/2009	3340	173.3	17.9	2.2	3533	0.02	4.0	4.0
10/15/2009	3280	172.9	17.5	2.2	3473	0.02	4.0	4.0
10/16/2009	3650	67.2	17.8	2.2	3737	0.03	4.3	4.3
10/17/2009	4080	11.7	13.9	0.0	4106	0.03	5.0	5.0
10/18/2009	4040	11.4	0.0	0.0	4051	0.03	4.8	4.8
10/19/2009	3980	10.6	0.0	0.0	3991	0.03	4.6	4.6
10/20/2009	4060	9.0	0.0	0.0	4069	0.03	4.9	4.9
10/21/2009	4080	8.9	0.0	0.0	4089	0.03	5.0	5.0
10/22/2009	4120	8.4	0.0	0.0	4128	0.04	5.1	5.1
10/23/2009	4020	8.5	0.0	0.0	4028	0.03	4.7	4.7
10/24/2009	4100	8.4	0.0	0.0	4108	0.03	5.1	5.1
10/25/2009	3790	8.1	0.0	0.0	3798	0.03	4.4	4.4
10/26/2009	3630	5.0	0.0	0.0	3635	0.03	4.2	4.2
10/27/2009	3720	0.0	0.0	0.0	3720	0.03	4.3	4.3
10/28/2009	3740	0.0	0.0	0.0	3740	0.03	4.3	4.3
10/29/2009	3640	0.0	0.0	0.0	3640	0.03	4.2	4.2
10/30/2009	3780	0.0	0.0	0.0	3780	0.03	4.3	4.3
10/31/2009	3850	0.0	0.0	0.0	3850	0.03	4.4	4.4
11/1/2009	4480	0.0	0.0	0.0	4480	0.05	6.5	6.5
11/2/2009	4620	0.0	0.0	0.0	4620	0.06	7.0	7.0
11/3/2009	4230	0.0	0.0	0.0	4230	0.04	5.6	5.6
11/4/2009	4040	0.0	0.0	0.0	4040	0.03	4.8	4.8
11/5/2009	3900	0.0	0.0	0.0	3900	0.03	4.5	4.5
11/6/2009	3850	0.0	0.0	0.0	3850	0.03	4.4	4.4
11/7/2009	3930	0.0	0.0	0.0	3930	0.03	4.5	4.5
11/8/2009	3930	0.0	0.0	0.0	3930	0.03	4.5	4.5
11/9/2009	3890	0.0	0.0	0.0	3890	0.03	4.5	4.5
11/10/2009	3900	0.0	0.0	0.0	3900	0.03	4.5	4.5
11/11/2009	3970	0.0	0.0	0.0	3970	0.03	4.5	4.5

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
11/12/2009	3840	0.0	0.0	0.0	3840	0.03	4.4	4.4
11/13/2009	4030	0.0	0.0	0.0	4030	0.03	4.7	4.7
11/14/2009	4080	0.0	0.0	0.0	4080	0.03	4.9	4.9
11/15/2009	4020	0.0	0.0	0.0	4020	0.03	4.7	4.7
11/16/2009	4010	0.0	0.0	0.0	4010	0.03	4.6	4.6
11/17/2009	3970	0.0	0.0	0.0	3970	0.03	4.5	4.5
11/18/2009	3530	0.0	0.0	0.0	3530	0.02	4.0	4.0
11/19/2009	3580	0.0	0.0	0.0	3580	0.03	4.1	4.1
11/20/2009	3450	0.0	0.0	0.0	3450	0.02	3.9	3.9
11/21/2009	3500	0.0	0.0	0.0	3500	0.02	4.0	4.0
11/22/2009	3520	0.0	0.0	0.0	3520	0.02	4.0	4.0
11/23/2009	3550	0.0	0.0	0.0	3550	0.03	4.1	4.1
11/24/2009	3560	0.0	0.0	0.0	3560	0.03	4.1	4.1
11/25/2009	3490	0.0	0.0	0.0	3490	0.02	4.0	4.0
11/26/2009	3550	0.0	0.0	0.0	3550	0.03	4.1	4.1
11/27/2009	3570	0.0	0.0	0.0	3570	0.03	4.1	4.1
11/28/2009	3580	0.0	0.0	0.0	3580	0.03	4.1	4.1
11/29/2009	3550	0.0	0.0	0.0	3550	0.03	4.1	4.1
11/30/2009	3440	0.0	0.0	0.0	3440	0.02	3.9	3.9
12/1/2009	3420	0.0	0.0	0.0	3420	0.02	3.9	3.9
12/2/2009	3390	0.0	0.0	0.0	3390	0.02	3.9	3.9
12/3/2009	2840	0.0	0.0	0.0	2840	0.02	3.2	3.2
12/4/2009	2740	0.0	0.0	0.0	2740	0.02	3.1	3.1
12/5/2009	2620	0.0	0.0	0.0	2620	0.01	2.9	2.9
12/6/2009	2460	0.0	0.0	0.0	2460	0.01	2.7	2.7
12/7/2009	2390	0.0	0.0	0.0	2390	0.01	2.6	2.6
12/8/2009	2220	0.0	0.0	0.0	2220	0.01	2.3	2.3
12/9/2009	2120	0.0	0.0	0.0	2120	0.01	2.1	2.1
12/10/2009	2020	0.0	0.0	0.0	2020	0.01	2.0	2.0
12/11/2009	2070	0.0	0.0	0.0	2070	0.01	2.1	2.1
12/12/2009	2160	0.0	0.0	0.0	2160	0.01	2.2	2.2
12/13/2009	2470	0.0	0.0	0.0	2470	0.01	2.7	2.7
12/14/2009	2820	0.0	0.0	0.0	2820	0.02	3.2	3.2
12/15/2009	3130	0.0	0.0	0.0	3130	0.02	3.6	3.6
12/16/2009	3610	0.0	0.0	0.0	3610	0.03	4.1	4.1
12/17/2009	3610	0.0	0.0	0.0	3610	0.03	4.1	4.1
12/18/2009	3610	0.0	0.0	0.0	3610	0.03	4.1	4.1
12/19/2009	3520	0.0	0.0	0.0	3520	0.02	4.0	4.0
12/20/2009	3560	0.0	0.0	0.0	3560	0.03	4.1	4.1
12/21/2009	3540	0.0	0.0	0.0	3540	0.02	4.1	4.1
12/22/2009	3520	0.0	0.0	0.0	3520	0.02	4.0	4.0
12/23/2009	3460	0.0	0.0	0.0	3460	0.02	4.0	4.0
12/24/2009	3360	0.0	0.0	0.0	3360	0.02	3.8	3.8
12/25/2009	3310	0.0	0.0	0.0	3310	0.02	3.8	3.8
12/26/2009	3300	0.0	0.0	0.0	3300	0.02	3.8	3.8
12/27/2009	3170	0.0	0.0	0.0	3170	0.02	3.6	3.6
12/28/2009	3010	0.0	0.0	0.0	3010	0.02	3.4	3.4
12/29/2009	3070	0.0	0.0	0.0	3070	0.02	3.5	3.5
12/30/2009	3160	0.0	0.0	0.0	3160	0.02	3.6	3.6
12/31/2009	3240	0.0	0.0	0.0	3240	0.02	3.7	3.7
1/1/2010	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
1/2/2010	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
1/3/2010	3380	0.0	0.0	0.0	3380	0.02	3.9	3.9

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
1/4/2010	3410	0.0	0.0	0.0	3410	0.02	3.9	3.9
1/5/2010	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
1/6/2010	3420	0.0	0.0	0.0	3420	0.02	3.9	3.9
1/7/2010	3010	0.0	0.0	0.0	3010	0.02	3.4	3.4
1/8/2010	2530	0.0	0.0	0.0	2530	0.01	2.8	2.8
1/9/2010	2500	0.0	0.0	0.0	2500	0.01	2.7	2.7
1/10/2010	2470	0.0	0.0	0.0	2470	0.01	2.7	2.7
1/11/2010	2910	0.0	0.0	0.0	2910	0.02	3.3	3.3
1/12/2010	3150	0.0	0.0	0.0	3150	0.02	3.6	3.6
1/13/2010	3340	0.0	0.0	0.0	3340	0.02	3.8	3.8
1/14/2010	3380	0.0	0.0	0.0	3380	0.02	3.9	3.9
1/15/2010	3380	0.0	0.0	0.0	3380	0.02	3.9	3.9
1/16/2010	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
1/17/2010	3330	0.0	0.0	0.0	3330	0.02	3.8	3.8
1/18/2010	3330	0.0	0.0	0.0	3330	0.02	3.8	3.8
1/19/2010	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
1/20/2010	3380	0.0	0.0	0.0	3380	0.02	3.9	3.9
1/21/2010	3380	0.0	0.0	0.0	3380	0.02	3.9	3.9
1/22/2010	3400	0.0	0.0	0.0	3400	0.02	3.9	3.9
1/23/2010	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
1/24/2010	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
1/25/2010	3350	0.0	0.0	0.0	3350	0.02	3.8	3.8
1/26/2010	3330	0.0	0.0	0.0	3330	0.02	3.8	3.8
1/27/2010	3370	0.0	0.0	0.0	3370	0.02	3.9	3.9
1/28/2010	3310	0.0	0.0	0.0	3310	0.02	3.8	3.8
1/29/2010	3030	0.0	0.0	0.0	3030	0.02	3.4	3.4
1/30/2010	2930	0.0	0.0	0.0	2930	0.02	3.3	3.3
1/31/2010	2970	0.0	0.0	0.0	2970	0.02	3.4	3.4
2/1/2010	3060	0.0	0.0	0.0	3060	0.02	3.5	3.5
2/2/2010	3060	0.0	0.0	0.0	3060	0.02	3.5	3.5
2/3/2010	3050	0.0	0.0	0.0	3050	0.02	3.5	3.5
2/4/2010	3060	0.0	0.0	0.0	3060	0.02	3.5	3.5
2/5/2010	3100	0.0	0.0	0.0	3100	0.02	3.5	3.5
2/6/2010	3090	0.0	0.0	0.0	3090	0.02	3.5	3.5
2/7/2010	3020	0.0	0.0	0.0	3020	0.02	3.4	3.4
2/8/2010	2910	0.0	0.0	0.0	2910	0.02	3.3	3.3
2/9/2010	2750	0.0	0.0	0.0	2750	0.02	3.1	3.1
2/10/2010	2770	0.0	0.0	0.0	2770	0.02	3.1	3.1
2/11/2010	2900	0.0	0.0	0.0	2900	0.02	3.3	3.3
2/12/2010	2940	0.0	0.0	0.0	2940	0.02	3.3	3.3
2/13/2010	2870	0.0	0.0	0.0	2870	0.02	3.2	3.2
2/14/2010	2860	0.0	0.0	0.0	2860	0.02	3.2	3.2
2/15/2010	2810	0.0	0.0	0.0	2810	0.02	3.1	3.1
2/16/2010	2810	0.0	0.0	0.0	2810	0.02	3.1	3.1
2/17/2010	2750	0.0	0.0	0.0	2750	0.02	3.1	3.1
2/18/2010	2780	0.0	0.0	0.0	2780	0.02	3.1	3.1
2/19/2010	2720	0.0	0.0	0.0	2720	0.02	3.0	3.0
2/20/2010	2690	0.0	0.0	0.0	2690	0.02	3.0	3.0
2/21/2010	2630	0.0	0.0	0.0	2630	0.02	2.9	2.9
2/22/2010	2580	0.0	0.0	0.0	2580	0.01	2.8	2.8
2/23/2010	2360	0.0	0.0	0.0	2360	0.01	2.5	2.5
2/24/2010	2470	0.0	0.0	0.0	2470	0.01	2.7	2.7
2/25/2010	2660	0.0	0.0	0.0	2660	0.02	2.9	2.9

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
2/26/2010	2720	0.0	0.0	0.0	2720	0.02	3.0	3.0
2/27/2010	2730	0.0	0.0	0.0	2730	0.02	3.0	3.0
2/28/2010	2680	0.0	0.0	0.0	2680	0.02	3.0	3.0
3/1/2010	2660	0.0	0.0	0.0	2660	0.02	2.9	2.9
3/2/2010	2630	0.0	0.0	0.0	2630	0.02	2.9	2.9
3/3/2010	2610	0.0	0.0	0.0	2610	0.01	2.9	2.9
3/4/2010	2670	0.0	0.0	0.0	2670	0.02	3.0	3.0
3/5/2010	2640	0.0	0.0	0.0	2640	0.02	2.9	2.9
3/6/2010	2600	0.0	0.0	0.0	2600	0.01	2.9	2.9
3/7/2010	2460	0.0	0.0	0.0	2460	0.01	2.7	2.7
3/8/2010	2450	0.0	0.0	0.0	2450	0.01	2.6	2.6
3/9/2010	2410	0.0	0.0	0.0	2410	0.01	2.6	2.6
3/10/2010	2260	0.0	0.0	0.0	2260	0.01	2.4	2.4
3/11/2010	2250	0.0	0.0	0.0	2250	0.01	2.3	2.3
3/12/2010	2140	0.0	0.0	0.0	2140	0.01	2.2	2.2
3/13/2010	2060	0.0	0.0	0.0	2060	0.01	2.0	2.0
3/14/2010	2030	0.0	0.0	0.0	2030	0.01	2.0	2.0
3/15/2010	1990	0.0	0.0	0.0	1990	0.01	1.9	1.9
3/16/2010	2000	0.0	0.0	0.0	2000	0.01	1.9	1.9
3/17/2010	1940	0.0	0.0	0.0	1940	0.01	1.8	1.8
3/18/2010	2030	0.0	0.0	0.0	2030	0.01	2.0	2.0
3/19/2010	2040	0.0	0.0	0.0	2040	0.01	2.0	2.0
3/20/2010	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
3/21/2010	1970	0.0	0.0	0.0	1970	0.01	1.9	1.9
3/22/2010	1960	0.0	0.0	0.0	1960	0.01	1.9	1.9
3/23/2010	1960	0.0	0.0	0.0	1960	0.01	1.9	1.9
3/24/2010	1910	0.0	0.0	0.0	1910	0.01	1.8	1.8
3/25/2010	1810	0.0	0.0	0.0	1810	0.01	1.6	1.6
3/26/2010	1800	0.0	0.0	0.0	1800	0.01	1.6	1.6
3/27/2010	1780	0.0	0.0	0.0	1780	0.01	1.5	1.5
3/28/2010	1720	0.0	0.0	0.0	1720	0.01	1.4	1.4
3/29/2010	1680	0.0	0.0	0.0	1680	0.00	1.3	1.3
3/30/2010	1710	0.0	0.0	0.0	1710	0.01	1.4	1.4
3/31/2010	1820	0.0	0.0	0.0	1820	0.01	1.6	1.6
4/1/2010	1880	0.0	0.0	0.0	1880	0.01	1.7	1.7
4/2/2010	1920	0.0	0.0	0.0	1920	0.01	1.8	1.8
4/3/2010	1870	0.0	0.0	0.0	1870	0.01	1.7	1.7
4/4/2010	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
4/5/2010	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
4/6/2010	1980	0.0	0.0	0.0	1980	0.01	1.9	1.9
4/7/2010	1880	0.0	0.0	0.0	1880	0.01	1.7	1.7
4/8/2010	1760	0.0	0.0	0.0	1760	0.01	1.5	1.5
4/9/2010	1860	0.0	0.0	0.0	1860	0.01	1.7	1.7
4/10/2010	1840	0.0	0.0	0.0	1840	0.01	1.7	1.7
4/11/2010	1900	0.0	0.0	0.0	1900	0.01	1.8	1.8
4/12/2010	1930	0.0	0.0	0.0	1930	0.01	1.8	1.8
4/13/2010	1970	0.0	0.0	0.0	1970	0.01	1.9	1.9
4/14/2010	2010	0.0	0.0	0.0	2010	0.01	2.0	2.0
4/15/2010	2220	0.0	0.0	0.0	2220	0.01	2.3	2.3
4/16/2010	2050	0.0	0.0	0.0	2050	0.01	2.0	2.0
4/17/2010	2100	0.0	0.0	0.0	2100	0.01	2.1	2.1
4/18/2010	2290	3.8	0.0	7.5	2301	0.01	2.4	2.4
4/19/2010	2560	67.6	0.0	7.5	2635	0.02	2.9	2.9

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
4/20/2010	2740	115.9	0.0	7.5	2863	0.02	3.2	3.2
4/21/2010	2710	134.5	0.0	7.5	2852	0.02	3.2	3.2
4/22/2010	2980	160.3	0.0	7.5	3148	0.02	3.6	3.6
4/23/2010	3970	134.5	0.0	7.5	4112	0.03	5.1	5.1
4/24/2010	4080	133.9	0.0	7.5	4221	0.04	5.5	5.5
4/25/2010	4120	133.4	0.0	7.5	4261	0.04	5.7	5.7
4/26/2010	3820	168.3	0.0	7.5	3996	0.03	4.6	4.6
4/27/2010	3450	185.0	0.0	7.5	3642	0.03	4.2	4.2
4/28/2010	3650	184.8	0.0	7.5	3842	0.03	4.4	4.4
4/29/2010	3850	184.2	25.3	7.5	4067	0.03	4.9	4.9
4/30/2010	4030	184.3	25.5	7.5	4247	0.04	5.6	5.6
5/1/2010	3900	184.9	25.5	7.5	4118	0.04	5.1	5.1
5/2/2010	3440	183.9	25.3	7.5	3657	0.03	4.2	4.2
5/3/2010	2890	184.9	25.3	7.5	3108	0.02	3.5	3.5
5/4/2010	3060	184.9	25.1	7.5	3277	0.02	3.7	3.7
5/5/2010	3370	185.1	25.4	7.5	3588	0.03	4.1	4.1
5/6/2010	3530	148.7	25.3	7.5	3711	0.03	4.3	4.3
5/7/2010	3780	159.7	25.2	7.5	3972	0.03	4.5	4.5
5/8/2010	3740	195.9	28.0	7.5	3971	0.03	4.5	4.5
5/9/2010	4030	212.6	31.5	7.5	4282	0.04	5.8	5.8
5/10/2010	4000	232.4	31.5	7.5	4271	0.04	5.7	5.7
5/11/2010	4200	250.1	32.0	7.5	4490	0.05	6.6	6.6
5/12/2010	4550	262.9	31.6	7.5	4852	0.07	7.9	7.9
5/13/2010	6100	302.9	31.7	7.5	6442	0.18	15.0	15.0
5/14/2010	9680	326.8	31.3	7.5	10046	0.44	27.0	26.8
5/15/2010	13100	325.6	33.5	7.5	13467	0.67	35.6	26.8
5/16/2010	14100	323.9	37.7	7.5	14469	0.74	37.9	26.8
5/17/2010	13300	344.9	44.5	9.5	13699	0.69	36.2	26.8
5/18/2010	12100	381.2	44.0	9.5	12535	0.61	33.4	26.8
5/19/2010	11000	391.0	43.3	9.5	11444	0.54	30.7	26.8
5/20/2010	10300	374.4	41.5	9.1	10725	0.49	28.8	26.8
5/21/2010	9740	364.7	40.5	9.1	10154	0.45	27.3	26.8
5/22/2010	9060	366.3	41.0	9.1	9476	0.40	25.3	25.3
5/23/2010	8500	366.3	42.4	6.7	8915	0.36	23.6	23.6
5/24/2010	7930	305.0	42.2	6.7	8284	0.32	21.6	21.6
5/25/2010	7380	285.7	42.6	6.7	7715	0.27	19.7	19.7
5/26/2010	6880	315.5	44.2	6.7	7246	0.24	18.1	18.1
5/27/2010	6390	323.2	49.3	6.7	6769	0.21	16.3	16.3
5/28/2010	5900	318.5	54.5	9.5	6282	0.17	14.4	14.4
5/29/2010	5750	318.8	55.0	9.5	6133	0.16	13.7	13.7
5/30/2010	6400	302.0	55.8	9.5	6767	0.21	16.3	16.3
5/31/2010	6960	288.1	55.9	9.5	7313	0.25	18.3	18.3
6/1/2010	6450	300.5	54.7	9.9	6815	0.21	16.5	16.5
6/2/2010	5950	334.6	55.4	9.9	6350	0.17	14.6	14.6
6/3/2010	5610	352.1	55.4	9.9	6027	0.15	13.3	13.3
6/4/2010	6050	363.5	54.8	9.9	6478	0.18	15.2	15.2
6/5/2010	6850	363.4	54.6	9.9	7278	0.24	18.2	18.2
6/6/2010	7860	363.5	55.1	9.9	8288	0.32	21.6	21.6
6/7/2010	9770	353.2	53.7	9.9	10187	0.45	27.3	26.8
6/8/2010	13400	323.7	53.0	9.1	13786	0.69	36.4	26.8
6/9/2010	18800	291.0	52.8	9.9	19154	1.03	47.2	26.8
6/10/2010	22700	291.0	53.9	10.0	23055	1.25	53.8	26.8
6/11/2010	23300	293.5	50.8	10.0	23654	1.29	54.7	26.8

Date	SR at Shelley USGS flow	SR Valley Canal	Woodville Canal	Woodville Siphon	At Gem Lake Diversion:			(limited to 26.8 cfs)
					River Q	dH	Diversion	
6/12/2010	23100	302.2	49.3	10.0	23461	1.28	54.4	26.8
6/13/2010	23700	300.8	48.9	10.0	24060	1.31	55.3	26.8
6/14/2010	23900	343.4	48.6	10.0	24302	1.32	55.7	26.8
6/15/2010	22500	371.1	47.4	10.0	22929	1.25	53.6	26.8
6/16/2010	19500	390.3	47.0	10.0	19947	1.08	48.6	26.8
6/17/2010	16900	391.7	47.1	10.0	17349	0.92	43.8	26.8
6/18/2010	15200	393.4	47.9	10.0	15651	0.81	40.4	26.8
6/19/2010	14000	403.5	49.3	10.0	14463	0.74	37.9	26.8
6/20/2010	11500	424.1	49.6	10.0	11984	0.57	32.1	26.8
6/21/2010	8950	434.8	50.3	10.0	9445	0.40	25.2	25.2
6/22/2010	8090	445.5	50.8	10.0	8596	0.34	22.6	22.6