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DEPARTMENT OF
WATER RESOURCES

February 14, 2011

Dan Nelson
IDWR State Office
PO Box 83720
Boise, ID 83720-0098

Subject: SV Homeowners' Association Water Bank Lease Applications

Dear Dan,

The following letter is in response to your e-mail requesting information supporting the Idaho Water Supply Bank Lease Applications we submitted on behalf of SV Homeowners' Association for water rights 63-161BN and 63-2932. Both rights authorize irrigation of the same 141 acres with a combined maximum diversion rate of 2.82 cfs and a combined annual volume of 634.5 acre feet. Based on actual water use, SPF determined that approximately 25 acres of the Association's 141 authorized acres are currently not being irrigated. Attached to this letter is information supporting this determination including:

- (1) Toothman-Orton Engineering Company's analysis of irrigation area dated February 26, 2004
- (2) Daily and annual Surprise Valley irrigation water diversion data for 2007 and 2008 obtained from Micron Technology, Inc.

Attachment A is an evaluation of irrigated area at Surprise Valley that Toothman-Orton Engineering Company conducted in 2004. The evaluation, including a 15% contingency factor, determined an irrigated area of 107.2 acres. No map was provided, but the evaluation included a verbal description of the irrigated area. Based on the Toothman-Orton analysis, a 107.2 estimated irrigated area in 2004 is approximately 34 acres less than the 141 acres allowed under the water rights.

Attachment B contains tables and graphs of 2007 and 2008 water use data obtained from Micron Technology. Micron Technology operates the Boise River pump station and pipeline that supplies irrigation water to Surprise Valley, Columbia Village, and Micron. The totalized flow meter reading on the tap to Surprise Valley is recorded on a daily basis.

The total daily flow reading allows determination of the approximate average flow for the preceding 24-hour period, assuming that the flow readings are recorded at a similar time each day. Excluding obvious reporting errors, these data indicate that the maximum 24-hour flows in 2007 and 2008 were 2.28 cfs (July 6, 2007) and 2.27 cfs (August 15, 2008), respectively. Maximum running 3-day average flow for those years were 2.19 cfs (July 5-7, 2007) and 2.12

cfs (July 17-19, 2008). The running 3-day average is probably the best indicator of actual irrigation water demand because the 3-day average reduces skewing of data resulting from readings at different times on consecutive days. Total annual diverted volumes for 2008 and 2009 were 505 and 483 acre feet, respectively.

The daily diversion rate data and annual volume data provide additional insight into water right utilization. Assuming that the peak irrigation diversion rate per irrigated acre is 0.02 cfs, the daily and 3-day average diversion rate data suggest approximately 114 and 109 acres irrigated. At 4.5 acre feet per acre irrigation, the 2007 annual volume suggest a minimum of 112 acres irrigated.

In summary, allowing for an approximate 2-acre irrigated area increase in 2009, the equivalent water supply of 116 acres is adequate to meet the irrigation needs within Surprise Valley. As a result, approximately 25 acres of water right (i.e., 141 acres minus 116 acres) are currently unused and have been submitted to the IWSB for protection from forfeiture. Please let me know if you have any questions Dan. Thank you for your attention to this matter.

Sincerely,



Lori Graves
Water Rights Specialist

Cc: Linda Jones
Holland and Hart

Mark Jones
Surprise Valley Homeowners' Association

Enclosures

SPF file number: 775.0010

ATTACHMENT A
2004 Irrigated Area Analysis

TOOTHMAN-ORTON ENGINEERING COMPANY
CONSULTING ENGINEERS, SURVEYORS AND PLANNERS
9777 CHINDEN BOULEVARD
BOISE, IDAHO 83714-2008
208-323-2288 • FAX 208-323-2399

February 26, 2004

Surprise Valley Homeowners Association
In care of Tim Lodge, Landscape Leader
6075 S. Schooner Place
Boise, ID 83716

Mr. Lodge:

In accordance with our agreement dated February 6, 2004, we have estimated the irrigation area in the Surprise Valley development. This letter summarizes our method of analysis and results.

METHODOLOGY

Locate and Orient Image

As we have discussed, our analysis was based on a June 2003 aerial photograph of the Surprise Valley development. The aerial photograph was not controlled and, therefore, not to scale. The image was divided into sections to make it locally scalable. The individual images were then rotated and scaled for an approximate "best fit" to the lot lines on the final plat.

Estimated Irrigation Area Within Neighborhoods

Each residential neighborhood and associated image was inspected to estimate the number of lots that needed be analyzed in detail to produce a representative sample for the entire neighborhood. The representative sample ranged from 15% - 30% of the lots in each neighborhood depending on variation in lot size and irrigated area per lot.

A detailed analysis of irrigated area was performed on the representative lots in each neighborhood. An average irrigated area per lot was determined from the detailed analysis and applied to all lots to estimate the total irrigation area for that neighborhood.

Estimated Irrigation Area Within Common Lots

The irrigation area within each common lot was explicitly measured from the "best fit" image as overlaid on the final plat. Common lots include planter strips, landscaped storm water facilities, landscaped strips along roads, open areas, and other areas not specifically covered under other sections of this report.

Estimated Low Intensity Irrigation

The low intensity irrigation area adjacent to the Surprise Valley entrance road was not clearly discernable in the aerial photograph and had to be estimated in the field. In accordance with our agreement, we provided the general location of the areas on the aerial images and you

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provided a "stepped off" estimate of the dimensions of the low intensity irrigation area in your e-mails dated February 23, 2004 and February 25, 2004. The low intensity irrigation is comprised of three areas: the first being a strip of land 30 yards wide and 380 yards long on the south side of Surprise Valley Way, the second being a strip of land 30 yards wide and 410 yards long on the north side of Surprise Valley Way, and the third being an approximately 1/2 acre "small corner" that is located on the south side of Surprise Valley Way in the northeast corner of the image provided. We understand from your e-mails that the low intensity irrigation areas that you provided are exclusive of potential irrigated areas associated with two proposed churches.

Estimated Irrigation Area of Cliffside Subdivision

An estimate of the irrigation area in Cliffside Subdivision was derived from the plat that shows lot sizes and an estimate of the average percentage of each residential lot to be irrigated. The common lots were assumed to be 100% irrigated area.

RESULTS

The results of our analysis are summarized in the table below. We have included a contingency factor to represent the approximate nature of the analysis and the resulting irrigation areas calculated. The contingency factor includes the combined effects of photograph resolution, local scale distortion, extrapolation of detailed analysis on representative lot samples, potential landscape areas under rooflines, and small landscaped areas that were neglected because they could not be measured within the accuracy of this analysis.

AREAS	ESTIMATED IRRIGATION AREA (acres)	RECOMMENDED CONTINGENCY	ADJUSTED IRRIGATION AREA (acres)
Neighborhoods	54.0	15%	62.1
Common Lots	30.0	10%	33.0
Cliffside Subdivision	5.4	10%	5.9
Low Intensity	5.4	15%	6.2
Total			107.2

The total adjusted irrigation area is approximately 107 acres. Our review of the water rights available to the Surprise Valley Development indicates that there are 141 acres available in surface water right 63-161BN. Note that the referenced water right has a permissible place of use totaling 246 acres. Per our agreement, we have not correlated the location of the irrigated area with the legally described permissible place of use in the reference water right.

Please call me or Jared Burgess with any questions regarding the above information.

Sincerely,
TOOTHMAN-ORTON ENGINEERING COMPANY


Steve Holt, P.E.
Project Manager

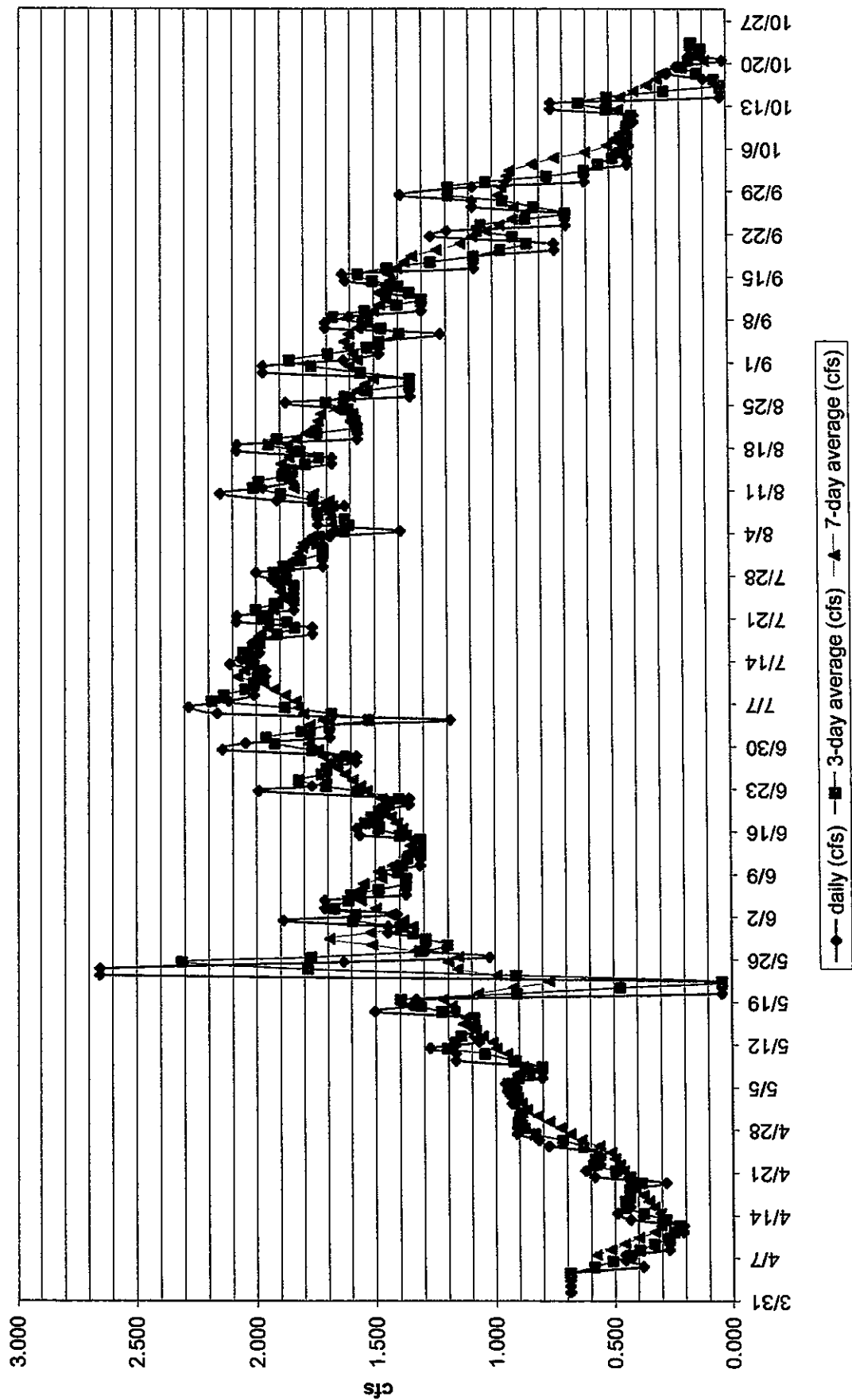
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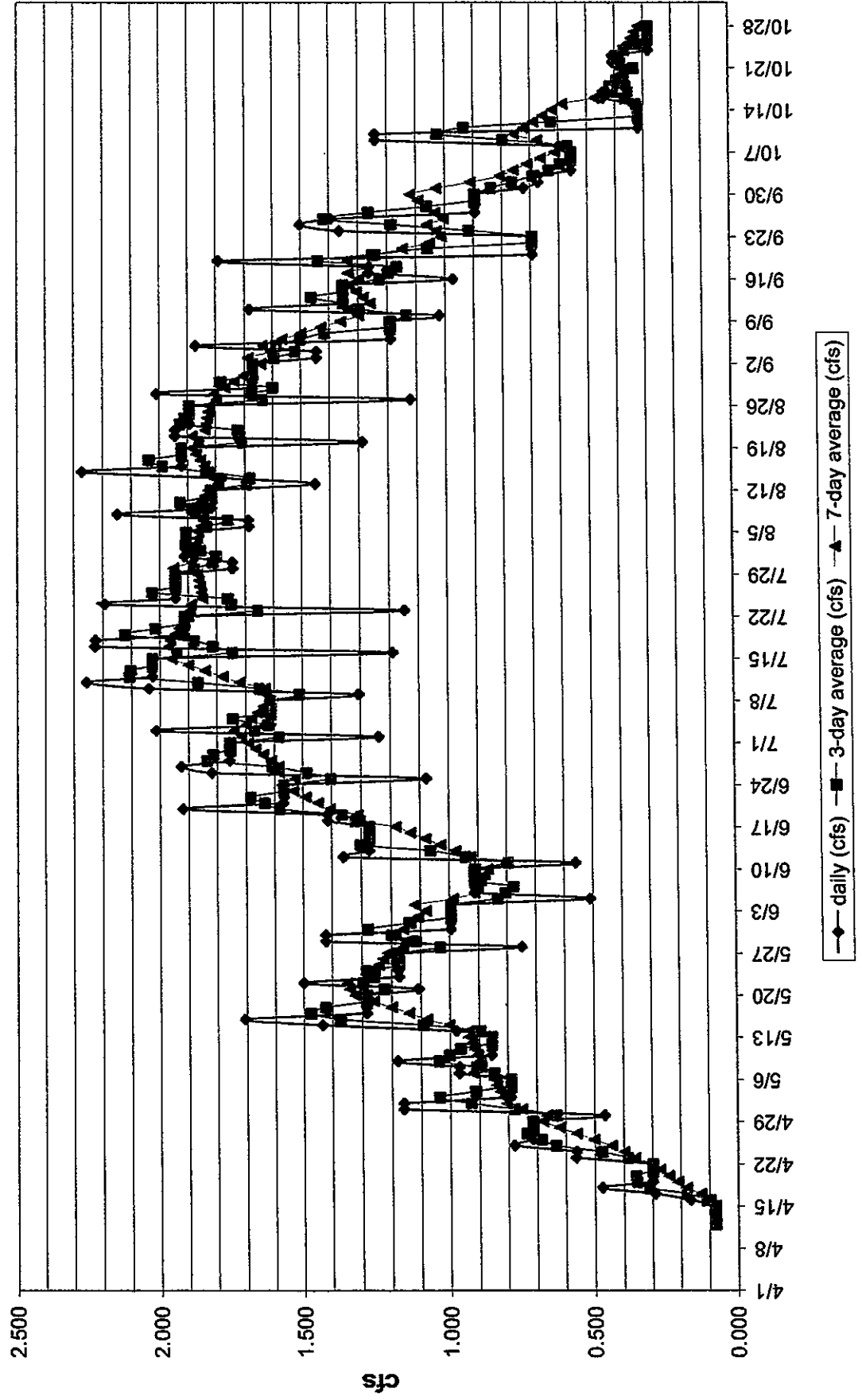
ATTACHMENT B

2007 and 2008 Water Diversion Data

Surprise Valley 2007 Irrigation Diversions



Surprise Valley 2008 Irrigation Diversions



2007 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
4/1/07	446,000			0.690		
4/2/07	446,000			0.690		
4/3/07	446,000			0.690		
4/4/07	446,000	446,000		0.690	0.690	
4/5/07	247,000	379,667		0.382	0.587	
4/6/07	296,000	329,667		0.458	0.510	
4/7/07	295,000	279,333	374,571	0.456	0.432	0.580
4/8/07	175,667	255,556	335,952	0.272	0.395	0.520
4/9/07	175,667	215,444	297,333	0.272	0.333	0.460
4/10/07	175,667	175,667	258,714	0.272	0.272	0.400
4/11/07	136,500	162,611	214,500	0.211	0.252	0.332
4/12/07	136,500	149,556	198,714	0.211	0.231	0.307
4/13/07	281,000	184,667	196,571	0.435	0.286	0.304
4/14/07	317,000	244,833	199,714	0.491	0.379	0.309
4/15/07	282,750	293,583	215,012	0.438	0.454	0.333
4/16/07	282,750	294,167	230,310	0.438	0.455	0.356
4/17/07	282,750	282,750	245,607	0.438	0.438	0.380
4/18/07	282,750	282,750	266,500	0.438	0.438	0.412
4/19/07	183,000	249,500	273,143	0.283	0.386	0.423
4/20/07	378,000	281,250	287,000	0.585	0.435	0.444
4/21/07	403,000	321,333	299,286	0.624	0.497	0.463
4/22/07	363,000	381,333	310,750	0.562	0.590	0.481
4/23/07	363,000	376,333	322,214	0.562	0.582	0.499
4/24/07	363,000	363,000	333,679	0.562	0.562	0.516
4/25/07	502,000	409,333	365,000	0.777	0.633	0.565
4/26/07	529,000	464,667	414,429	0.819	0.719	0.641
4/27/07	589,000	540,000	444,571	0.911	0.836	0.688
4/28/07	589,000	569,000	471,143	0.911	0.880	0.729
4/29/07	575,667	584,556	501,524	0.891	0.905	0.776
4/30/07	575,667	580,111	531,905	0.891	0.898	0.823
5/1/07	575,667	575,667	562,286	0.891	0.891	0.870
5/2/07	602,500	584,611	576,643	0.932	0.905	0.892
5/3/07	602,500	593,556	587,143	0.932	0.918	0.909
5/4/07	616,000	607,000	591,000	0.953	0.939	0.914
5/5/07	620,000	612,833	595,429	0.959	0.948	0.921
5/6/07	519,333	585,111	587,381	0.804	0.905	0.909
5/7/07	519,333	552,889	579,333	0.804	0.856	0.896
5/8/07	519,333	519,333	571,286	0.804	0.804	0.884
5/9/07	755,500	598,056	593,143	1.169	0.925	0.918
5/10/07	755,500	676,778	615,000	1.169	1.047	0.952
5/11/07	826,000	779,000	645,000	1.278	1.205	0.998
5/12/07	692,000	757,833	655,286	1.071	1.173	1.014
5/13/07	706,250	741,417	681,988	1.093	1.147	1.055

2007 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
5/14/07	706,250	701,500	708,690	1.093	1.085	1.097
5/15/07	706,250	706,250	735,393	1.093	1.093	1.138
5/16/07	706,250	706,250	728,357	1.093	1.093	1.127
5/17/07	971,000	794,500	759,143	1.502	1.229	1.175
5/18/07	874,000	850,417	766,000	1.352	1.316	1.185
5/19/07	862,000	902,333	790,286	1.334	1.396	1.223
5/20/07	27,000	587,667	693,250	0.042	0.909	1.073
5/21/07	27,000	305,333	596,214	0.042	0.472	0.923
5/22/07	27,000	27,000	499,179	0.042	0.042	0.772
5/23/07	1,716,500	590,167	643,500	2.656	0.913	0.996
5/24/07	1,716,500	1,153,333	750,000	2.656	1.785	1.161
5/25/07	1,055,000	1,496,000	775,857	1.632	2.315	1.201
5/26/07	662,000	1,144,500	747,286	1.024	1.771	1.156
5/27/07	836,333	851,111	862,905	1.294	1.317	1.335
5/28/07	836,333	778,222	978,524	1.294	1.204	1.514
5/29/07	836,333	836,333	1,094,143	1.294	1.294	1.693
5/30/07	936,000	869,556	982,643	1.448	1.345	1.520
5/31/07	936,000	902,778	871,143	1.448	1.397	1.348
6/1/07	1,220,000	1,030,667	894,714	1.888	1.595	1.384
6/2/07	913,000	1,023,000	930,571	1.413	1.583	1.440
6/3/07	1,107,000	1,080,000	969,238	1.713	1.671	1.500
6/4/07	1,107,000	1,042,333	1,007,905	1.713	1.613	1.560
6/5/07	888,000	1,034,000	1,015,286	1.374	1.600	1.571
6/6/07	886,999	960,667	1,008,286	1.372	1.486	1.560
6/7/07	888,000	887,667	1,001,429	1.374	1.374	1.550
6/8/07	887,000	887,333	953,857	1.372	1.373	1.476
6/9/07	954,000	909,667	959,714	1.476	1.408	1.485
6/10/07	849,998	896,999	923,000	1.315	1.388	1.428
6/11/07	849,003	884,334	886,143	1.314	1.368	1.371
6/12/07	849,998	849,666	880,714	1.315	1.315	1.363
6/13/07	848,999	849,333	875,286	1.314	1.314	1.354
6/14/07	850,002	849,666	869,857	1.315	1.315	1.346
6/15/07	1,011,000	903,334	887,571	1.564	1.398	1.373
6/16/07	1,019,000	960,001	896,857	1.577	1.485	1.388
6/17/07	958,999	996,333	912,429	1.484	1.542	1.412
6/18/07	958,000	978,666	928,000	1.482	1.514	1.436
6/19/07	959,001	958,667	943,572	1.484	1.483	1.460
6/20/07	879,001	932,000	947,857	1.360	1.442	1.467
6/21/07	877,999	905,334	951,857	1.359	1.401	1.473
6/22/07	1,287,000	1,014,667	991,286	1.991	1.570	1.534
6/23/07	1,142,000	1,102,333	1,008,857	1.767	1.706	1.561
6/24/07	1,101,002	1,176,667	1,029,143	1.704	1.821	1.592
6/25/07	1,099,998	1,114,333	1,049,429	1.702	1.724	1.624

2007 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
6/26/07	1,101,000	1,100,667	1,069,714	1.704	1.703	1.655
6/27/07	1,019,998	1,073,666	1,089,857	1.578	1.661	1.686
6/28/07	1,019,002	1,046,667	1,110,000	1.577	1.620	1.718
6/29/07	1,385,000	1,141,333	1,124,000	2.143	1.766	1.739
6/30/07	1,322,000	1,242,001	1,149,714	2.046	1.922	1.779
7/1/07	1,091,999	1,266,333	1,148,428	1.690	1.959	1.777
7/2/07	1,093,002	1,169,000	1,147,429	1.691	1.809	1.775
7/3/07	1,091,999	1,092,333	1,146,143	1.690	1.690	1.773
7/4/07	768,000	984,334	1,110,143	1.188	1.523	1.718
7/5/07	1,399,000	1,086,333	1,164,429	2.165	1.681	1.802
7/6/07	1,476,000	1,214,333	1,177,429	2.284	1.879	1.822
7/7/07	1,367,000	1,414,000	1,183,857	2.115	2.188	1.832
7/8/07	1,298,999	1,380,666	1,213,428	2.010	2.136	1.878
7/9/07	1,300,003	1,322,001	1,243,000	2.012	2.046	1.923
7/10/07	1,298,998	1,299,333	1,272,571	2.010	2.011	1.969
7/11/07	1,268,003	1,289,001	1,344,000	1.962	1.995	2.080
7/12/07	1,267,997	1,278,333	1,325,286	1.962	1.978	2.051
7/13/07	1,364,000	1,300,000	1,309,286	2.111	2.012	2.026
7/14/07	1,336,000	1,322,666	1,304,857	2.067	2.047	2.019
7/15/07	1,284,002	1,328,001	1,302,715	1.987	2.055	2.016
7/16/07	1,282,997	1,301,000	1,300,285	1.985	2.013	2.012
7/17/07	1,284,001	1,283,667	1,298,143	1.987	1.986	2.009
7/18/07	1,138,004	1,235,001	1,279,572	1.761	1.911	1.980
7/19/07	1,138,996	1,187,000	1,261,143	1.762	1.837	1.951
7/20/07	1,345,997	1,207,666	1,258,571	2.083	1.869	1.947
7/21/07	1,345,003	1,276,665	1,259,857	2.081	1.975	1.949
7/22/07	1,189,001	1,293,334	1,246,286	1.840	2.001	1.928
7/23/07	1,188,995	1,241,000	1,232,857	1.840	1.920	1.908
7/24/07	1,189,003	1,189,000	1,219,286	1.840	1.840	1.887
7/25/07	1,189,003	1,189,000	1,226,571	1.840	1.840	1.898
7/26/07	1,188,998	1,189,001	1,233,714	1.840	1.840	1.909
7/27/07	1,249,000	1,209,000	1,219,858	1.933	1.871	1.888
7/28/07	1,293,000	1,243,666	1,212,429	2.001	1.924	1.876
7/29/07	1,108,999	1,217,000	1,201,000	1.716	1.883	1.858
7/30/07	1,110,001	1,170,666	1,189,715	1.718	1.811	1.841
7/31/07	1,109,001	1,109,333	1,178,286	1.716	1.717	1.823
8/1/07	1,109,000	1,109,334	1,166,857	1.716	1.717	1.806
8/2/07	1,156,000	1,124,667	1,162,143	1.789	1.740	1.798
8/3/07	1,089,000	1,118,000	1,139,286	1.685	1.730	1.763
8/4/07	900,000	1,048,333	1,083,143	1.393	1.622	1.676
8/5/07	1,122,999	1,037,333	1,085,143	1.738	1.605	1.679
8/6/07	1,122,002	1,048,334	1,086,857	1.736	1.622	1.682
8/7/07	1,122,999	1,122,667	1,088,857	1.738	1.737	1.685

2007 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
8/8/07	1,048,000	1,097,667	1,080,143	1.622	1.698	1.671
8/9/07	1,235,000	1,135,333	1,091,429	1.911	1.757	1.689
8/10/07	1,390,000	1,224,333	1,134,429	2.151	1.894	1.755
8/11/07	1,274,000	1,299,667	1,187,857	1.971	2.011	1.838
8/12/07	1,192,002	1,285,334	1,197,715	1.844	1.989	1.853
8/13/07	1,193,001	1,219,668	1,207,857	1.846	1.887	1.869
8/14/07	1,191,997	1,192,333	1,217,714	1.844	1.845	1.884
8/15/07	1,084,004	1,156,334	1,222,858	1.677	1.789	1.892
8/16/07	1,083,996	1,119,999	1,201,286	1.677	1.733	1.859
8/17/07	1,344,997	1,170,999	1,194,857	2.081	1.812	1.849
8/18/07	1,344,003	1,257,665	1,204,857	2.080	1.946	1.864
8/19/07	1,013,999	1,234,333	1,179,428	1.569	1.910	1.825
8/20/07	1,013,000	1,123,667	1,153,714	1.567	1.739	1.785
8/21/07	1,014,001	1,013,667	1,128,286	1.569	1.568	1.746
8/22/07	1,029,998	1,019,000	1,120,571	1.594	1.577	1.734
8/23/07	1,030,002	1,024,667	1,112,857	1.594	1.586	1.722
8/24/07	1,057,000	1,039,000	1,071,715	1.636	1.608	1.658
8/25/07	1,211,000	1,099,334	1,052,714	1.874	1.701	1.629
8/26/07	872,004	1,046,668	1,032,429	1.349	1.620	1.598
8/27/07	872,993	985,332	1,012,428	1.351	1.525	1.567
8/28/07	872,002	872,333	992,143	1.349	1.350	1.535
8/29/07	873,001	872,665	969,715	1.351	1.350	1.500
8/30/07	1,274,002	1,006,335	1,004,572	1.971	1.557	1.554
8/31/07	1,273,998	1,140,334	1,035,571	1.971	1.764	1.602
9/1/07	1,051,000	1,199,667	1,012,714	1.626	1.856	1.567
9/2/07	954,993	1,093,330	1,024,570	1.478	1.692	1.585
9/3/07	954,010	986,668	1,036,144	1.476	1.527	1.603
9/4/07	954,997	954,667	1,048,000	1.478	1.477	1.622
9/5/07	790,000	899,669	1,036,143	1.222	1.392	1.603
9/6/07	1,100,996	948,664	1,011,428	1.704	1.468	1.565
9/7/07	1,102,004	997,667	986,857	1.705	1.544	1.527
9/8/07	1,034,000	1,079,000	984,429	1.600	1.670	1.523
9/9/07	841,001	992,335	968,144	1.301	1.535	1.498
9/10/07	841,003	905,335	952,000	1.301	1.401	1.473
9/11/07	840,995	841,000	935,714	1.301	1.301	1.448
9/12/07	935,006	872,335	956,429	1.447	1.350	1.480
9/13/07	933,994	903,332	932,572	1.445	1.398	1.443
9/14/07	1,045,000	971,333	924,429	1.617	1.503	1.430
9/15/07	1,054,000	1,010,998	927,286	1.631	1.564	1.435
9/16/07	697,001	932,000	906,714	1.078	1.442	1.403
9/17/07	697,006	816,003	886,143	1.079	1.263	1.371
9/18/07	696,992	697,000	865,571	1.078	1.078	1.339
9/19/07	475,005	623,001	799,857	0.735	0.964	1.238

2007 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
9/20/07	475,995	549,331	734,429	0.737	0.850	1.136
9/21/07	816,000	589,000	701,714	1.263	0.911	1.086
9/22/07	771,000	687,665	661,286	1.193	1.064	1.023
9/23/07	443,993	676,998	625,142	0.687	1.048	0.967
9/24/07	445,007	553,333	589,142	0.689	0.856	0.912
9/25/07	444,000	444,333	553,000	0.687	0.688	0.856
9/26/07	701,005	530,004	585,286	1.085	0.820	0.906
9/27/07	701,995	615,667	617,571	1.086	0.953	0.956
9/28/07	897,000	766,667	629,143	1.388	1.186	0.973
9/29/07	701,000	766,665	619,143	1.085	1.186	0.958
9/30/07	390,999	663,000	611,572	0.605	1.026	0.946
10/1/07	391,998	494,666	604,000	0.607	0.765	0.935
10/2/07	391,003	391,333	596,429	0.605	0.606	0.923
10/3/07	272,999	352,000	535,285	0.422	0.545	0.828
10/4/07	273,001	312,334	474,000	0.422	0.483	0.733
10/5/07	302,000	282,667	389,000	0.467	0.437	0.602
10/6/07	268,000	281,000	327,143	0.415	0.435	0.506
10/7/07	272,004	280,668	310,144	0.421	0.434	0.480
10/8/07	272,995	271,000	293,143	0.422	0.419	0.454
10/9/07	272,001	272,333	276,143	0.421	0.421	0.427
10/10/07	254,000	266,332	273,429	0.393	0.412	0.423
10/11/07	254,000	260,000	270,714	0.393	0.402	0.419
10/12/07	483,000	330,333	296,571	0.747	0.511	0.459
10/13/07	483,000	406,667	327,286	0.747	0.629	0.506
10/14/07	15,993	327,331	290,713	0.025	0.506	0.450
10/15/07	17,014	172,002	254,144	0.026	0.266	0.393
10/16/07	15,994	16,333	217,571	0.025	0.025	0.337
10/17/07	61,994	31,667	190,142	0.096	0.049	0.294
10/18/07	161,006	79,665	176,857	0.249	0.123	0.274
10/19/07	136,000	119,667	127,286	0.210	0.185	0.197
10/20/07	9,000	102,002	59,571	0.014	0.158	0.092
10/21/07	96,994	80,665	71,143	0.150	0.125	0.110
10/22/07	97,000	67,665	82,570	0.150	0.105	0.128
10/23/07	97,006	97,000	94,143	0.150	0.150	0.146
Total (af)				505		

2008 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
4/12/08	51,006	51,006	51,006	0.079	0.079	0.079
4/13/08	51,987	51,497	51,497	0.080	0.080	0.080
4/14/08	51,010	51,334	51,334	0.079	0.079	0.079
4/15/08	51,997	51,665	51,500	0.080	0.080	0.080
4/16/08	107,000	70,002	62,600	0.166	0.108	0.097
4/17/08	187,000	115,332	83,333	0.289	0.178	0.129
4/18/08	307,000	200,333	115,286	0.475	0.310	0.178
4/19/08	192,996	228,999	135,570	0.299	0.354	0.210
4/20/08	193,008	231,002	155,716	0.299	0.357	0.241
4/21/08	192,001	192,669	175,858	0.297	0.298	0.272
4/22/08	192,994	192,668	196,000	0.299	0.298	0.303
4/23/08	365,005	250,000	232,858	0.565	0.387	0.360
4/24/08	363,995	307,331	258,143	0.563	0.476	0.399
4/25/08	505,000	411,333	286,429	0.781	0.636	0.443
4/26/08	463,005	444,000	325,001	0.716	0.687	0.503
4/27/08	461,990	476,665	363,427	0.715	0.738	0.562
4/28/08	462,997	462,664	402,141	0.716	0.716	0.622
4/29/08	463,007	462,665	440,714	0.716	0.716	0.682
4/30/08	301,000	409,001	431,571	0.466	0.633	0.668
5/1/08	750,993	505,000	486,856	1.162	0.781	0.753
5/2/08	751,007	601,000	522,000	1.162	0.930	0.808
5/3/08	511,993	671,331	528,998	0.792	1.039	0.819
5/4/08	511,002	591,334	536,000	0.791	0.915	0.829
5/5/08	512,009	511,668	543,001	0.792	0.792	0.840
5/6/08	510,997	511,336	549,857	0.791	0.791	0.851
5/7/08	627,004	550,003	596,429	0.970	0.851	0.923
5/8/08	626,996	588,332	578,715	0.970	0.910	0.895
5/9/08	764,000	672,667	580,571	1.182	1.041	0.898
5/10/08	555,003	648,666	586,716	0.859	1.004	0.908
5/11/08	554,001	624,335	592,858	0.857	0.966	0.917
5/12/08	554,993	554,666	598,999	0.859	0.858	0.927
5/13/08	555,003	554,666	605,286	0.859	0.858	0.937
5/14/08	633,000	580,999	606,142	0.979	0.899	0.938
5/15/08	929,000	705,668	649,286	1.437	1.092	1.005
5/16/08	1,104,000	888,667	697,857	1.708	1.375	1.080
5/17/08	830,999	954,666	737,285	1.286	1.477	1.141
5/18/08	831,009	922,002	776,858	1.286	1.427	1.202
5/19/08	829,987	830,665	816,142	1.284	1.285	1.263
5/20/08	831,006	830,667	855,571	1.286	1.285	1.324
5/21/08	716,000	792,331	867,429	1.108	1.226	1.342
5/22/08	970,000	839,002	873,286	1.501	1.298	1.351
5/23/08	760,002	815,334	824,143	1.176	1.262	1.275

2008 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
5/24/08	761,002	830,335	814,144	1.178	1.285	1.260
5/25/08	759,995	760,333	803,999	1.176	1.176	1.244
5/26/08	761,002	760,666	794,144	1.178	1.177	1.229
5/27/08	760,000	760,332	784,000	1.176	1.176	1.213
5/28/08	485,000	668,667	751,000	0.750	1.035	1.162
5/29/08	920,000	721,667	743,857	1.424	1.117	1.151
5/30/08	920,000	775,000	766,714	1.424	1.199	1.186
5/31/08	644,004	828,001	750,000	0.996	1.281	1.161
6/1/08	643,997	736,000	733,429	0.996	1.139	1.135
6/2/08	643,005	643,669	716,572	0.995	0.996	1.109
6/3/08	643,997	643,667	700,000	0.996	0.996	1.083
6/4/08	643,997	643,666	722,714	0.996	0.996	1.118
6/5/08	329,000	538,998	638,286	0.509	0.834	0.988
6/6/08	590,007	521,001	591,144	0.913	0.806	0.915
6/7/08	589,996	503,001	583,429	0.913	0.778	0.903
6/8/08	589,996	590,000	575,714	0.913	0.913	0.891
6/9/08	589,996	589,996	568,141	0.913	0.913	0.879
6/10/08	590,004	589,999	560,428	0.913	0.913	0.867
6/11/08	362,000	514,000	520,143	0.560	0.795	0.805
6/12/08	880,000	610,668	598,857	1.362	0.945	0.927
6/13/08	822,995	688,332	632,141	1.273	1.065	0.978
6/14/08	822,998	841,998	665,427	1.273	1.303	1.030
6/15/08	824,005	823,333	698,857	1.275	1.274	1.081
6/16/08	822,998	823,334	732,143	1.273	1.274	1.133
6/17/08	823,004	823,336	765,429	1.273	1.274	1.184
6/18/08	913,995	853,333	844,285	1.414	1.320	1.306
6/19/08	915,005	884,001	849,286	1.416	1.368	1.314
6/20/08	1,241,000	1,023,333	909,001	1.920	1.583	1.407
6/21/08	1,013,994	1,056,666	936,286	1.569	1.635	1.449
6/22/08	1,013,000	1,089,331	963,285	1.567	1.686	1.491
6/23/08	1,014,008	1,013,667	990,572	1.569	1.568	1.533
6/24/08	1,012,998	1,013,335	1,017,714	1.567	1.568	1.575
6/25/08	697,000	908,002	986,715	1.078	1.405	1.527
6/26/08	1,175,000	961,666	1,023,857	1.818	1.488	1.584
6/27/08	1,245,000	1,039,000	1,024,429	1.926	1.608	1.585
6/28/08	1,135,993	1,185,331	1,041,857	1.758	1.834	1.612
6/29/08	1,135,010	1,172,001	1,059,287	1.756	1.813	1.639
6/30/08	1,136,002	1,135,668	1,076,715	1.758	1.757	1.666
7/1/08	1,134,996	1,135,336	1,094,143	1.756	1.757	1.693
7/2/08	801,000	1,023,999	1,109,000	1.239	1.584	1.716
7/3/08	1,302,000	1,079,332	1,127,143	2.015	1.670	1.744
7/4/08	1,042,995	1,048,665	1,098,285	1.614	1.623	1.699

2008 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
7/5/08	1,042,999	1,129,331	1,085,000	1.614	1.747	1.679
7/6/08	1,042,999	1,042,998	1,071,856	1.614	1.614	1.659
7/7/08	1,042,999	1,042,999	1,058,570	1.614	1.614	1.638
7/8/08	1,043,007	1,043,002	1,045,429	1.614	1.614	1.618
7/9/08	844,000	976,669	1,051,571	1.306	1.511	1.627
7/10/08	1,318,000	1,068,336	1,053,857	2.039	1.653	1.631
7/11/08	1,458,000	1,206,667	1,113,144	2.256	1.867	1.722
7/12/08	1,310,000	1,362,000	1,151,287	2.027	2.107	1.781
7/13/08	1,311,005	1,359,668	1,189,573	2.029	2.104	1.841
7/14/08	1,309,998	1,310,334	1,227,716	2.027	2.028	1.900
7/15/08	1,309,998	1,310,333	1,265,857	2.027	2.028	1.959
7/16/08	769,000	1,129,665	1,255,143	1.190	1.748	1.942
7/17/08	1,439,007	1,172,668	1,272,430	2.227	1.815	1.969
7/18/08	1,437,993	1,215,333	1,269,571	2.225	1.881	1.964
7/19/08	1,236,003	1,371,001	1,259,001	1.913	2.121	1.948
7/20/08	1,235,992	1,303,329	1,248,284	1.912	2.017	1.932
7/21/08	1,236,008	1,236,001	1,237,714	1.913	1.913	1.915
7/22/08	1,235,996	1,235,999	1,227,143	1.913	1.913	1.899
7/23/08	742,000	1,071,335	1,223,286	1.148	1.658	1.893
7/24/08	1,417,000	1,131,665	1,220,142	2.193	1.751	1.888
7/25/08	1,256,996	1,138,665	1,194,285	1.945	1.762	1.848
7/26/08	1,255,997	1,309,998	1,197,141	1.943	2.027	1.852
7/27/08	1,257,004	1,256,666	1,200,143	1.945	1.944	1.857
7/28/08	1,255,997	1,256,332	1,202,999	1.943	1.944	1.861
7/29/08	1,257,006	1,256,669	1,206,000	1.945	1.944	1.866
7/30/08	1,128,003	1,213,669	1,261,143	1.745	1.878	1.951
7/31/08	1,128,997	1,171,335	1,220,000	1.747	1.812	1.888
8/1/08	1,236,000	1,164,333	1,217,001	1.913	1.802	1.883
8/2/08	1,230,996	1,198,664	1,213,429	1.905	1.855	1.878
8/3/08	1,232,010	1,233,002	1,209,858	1.906	1.908	1.872
8/4/08	1,231,995	1,231,667	1,206,430	1.906	1.906	1.867
8/5/08	1,230,999	1,231,668	1,202,714	1.905	1.906	1.861
8/6/08	1,090,000	1,184,331	1,197,285	1.687	1.833	1.853
8/7/08	1,091,000	1,137,333	1,191,857	1.688	1.760	1.844
8/8/08	1,388,000	1,189,667	1,213,571	2.148	1.841	1.878
8/9/08	1,174,015	1,217,672	1,205,431	1.817	1.884	1.865
8/10/08	1,172,974	1,244,996	1,196,998	1.815	1.926	1.852
8/11/08	1,174,011	1,173,667	1,188,714	1.817	1.816	1.839
8/12/08	1,174,000	1,173,662	1,180,571	1.817	1.816	1.827
8/13/08	938,000	1,095,337	1,158,857	1.451	1.695	1.793
8/14/08	1,150,000	1,087,333	1,167,286	1.779	1.682	1.806
8/15/08	1,467,000	1,185,000	1,178,571	2.270	1.834	1.824

2008 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
8/16/08	1,242,008	1,286,336	1,188,285	1.922	1.990	1.839
8/17/08	1,242,004	1,317,004	1,198,146	1.922	2.038	1.854
8/18/08	1,240,997	1,241,670	1,207,716	1.920	1.921	1.869
8/19/08	1,241,990	1,241,664	1,217,429	1.922	1.921	1.884
8/20/08	833,000	1,105,329	1,202,429	1.289	1.710	1.861
8/21/08	1,256,004	1,110,331	1,217,572	1.943	1.718	1.884
8/22/08	1,255,996	1,115,000	1,187,429	1.943	1.725	1.837
8/23/08	1,223,008	1,245,003	1,184,714	1.892	1.926	1.833
8/24/08	1,223,999	1,234,334	1,182,142	1.894	1.910	1.829
8/25/08	1,223,999	1,223,669	1,179,714	1.894	1.893	1.825
8/26/08	1,222,994	1,223,664	1,177,000	1.892	1.893	1.821
8/27/08	725,000	1,057,331	1,161,571	1.122	1.636	1.797
8/28/08	1,299,000	1,082,331	1,167,714	2.010	1.675	1.807
8/29/08	1,080,001	1,034,667	1,142,572	1.671	1.601	1.768
8/30/08	1,079,987	1,152,996	1,122,140	1.671	1.784	1.736
8/31/08	1,079,010	1,079,666	1,101,427	1.670	1.671	1.704
9/1/08	1,080,017	1,079,671	1,080,859	1.671	1.671	1.672
9/2/08	1,079,985	1,079,671	1,060,429	1.671	1.671	1.641
9/3/08	933,992	1,031,331	1,090,285	1.445	1.596	1.687
9/4/08	934,008	982,662	1,038,143	1.445	1.521	1.606
9/5/08	1,209,000	1,025,667	1,056,571	1.871	1.587	1.635
9/6/08	769,010	970,673	1,012,146	1.190	1.502	1.566
9/7/08	769,989	916,000	968,000	1.191	1.417	1.498
9/8/08	769,012	769,337	923,571	1.190	1.190	1.429
9/9/08	768,989	769,330	879,143	1.190	1.190	1.360
9/10/08	660,000	732,667	840,001	1.021	1.134	1.300
9/11/08	1,087,000	838,663	861,857	1.682	1.298	1.334
9/12/08	873,996	873,665	813,999	1.352	1.352	1.260
9/13/08	873,993	944,996	828,997	1.352	1.462	1.283
9/14/08	874,023	874,004	843,859	1.352	1.352	1.306
9/15/08	873,988	874,001	858,856	1.352	1.352	1.329
9/16/08	629,000	792,337	838,857	0.973	1.226	1.298
9/17/08	816,989	773,326	861,284	1.264	1.197	1.333
9/18/08	816,011	754,000	822,571	1.263	1.167	1.273
9/19/08	1,157,000	930,000	863,001	1.790	1.439	1.335
9/20/08	448,986	807,332	802,285	0.695	1.249	1.241
9/21/08	450,012	685,333	741,712	0.696	1.060	1.148
9/22/08	449,005	449,334	681,000	0.695	0.695	1.054
9/23/08	448,997	449,338	655,286	0.695	0.695	1.014
9/24/08	881,000	593,001	664,430	1.363	0.918	1.028
9/25/08	970,000	766,666	686,429	1.501	1.186	1.062
9/26/08	901,000	917,333	649,857	1.394	1.419	1.006

2008 Surprise Valley Irrigation Diversion

date	daily (gallons)	3-day average (gallons)	7-day average (gallons)	daily (cfs)	3-day average (cfs)	7-day average (cfs)
9/27/08	579,002	816,667	668,431	0.896	1.264	1.034
9/28/08	579,987	686,663	686,999	0.897	1.062	1.063
9/29/08	579,010	579,333	705,571	0.896	0.896	1.092
9/30/08	580,001	579,666	724,286	0.897	0.897	1.121
10/1/08	468,000	542,337	665,286	0.724	0.839	1.029
10/2/08	435,000	494,334	588,857	0.673	0.765	0.911
10/3/08	435,000	446,000	522,286	0.673	0.690	0.808
10/4/08	359,007	409,669	490,858	0.556	0.634	0.760
10/5/08	358,978	384,328	459,285	0.555	0.595	0.711
10/6/08	358,002	358,662	427,713	0.554	0.555	0.662
10/7/08	359,013	358,664	396,143	0.556	0.555	0.613
10/8/08	386,000	367,672	384,429	0.597	0.569	0.595
10/9/08	801,007	515,340	436,715	1.239	0.797	0.676
10/10/08	801,993	663,000	489,143	1.241	1.026	0.757
10/11/08	206,003	603,001	467,285	0.319	0.933	0.723
10/12/08	205,994	404,663	445,430	0.319	0.626	0.689
10/13/08	207,001	206,332	423,859	0.320	0.319	0.656
10/14/08	206,003	206,332	402,000	0.319	0.319	0.622
10/15/08	217,000	210,001	377,857	0.336	0.325	0.585
10/16/08	285,005	236,003	304,143	0.441	0.365	0.471
10/17/08	284,995	262,333	230,286	0.441	0.406	0.356
10/18/08	238,992	269,664	234,998	0.370	0.417	0.364
10/19/08	238,007	253,998	239,572	0.368	0.393	0.371
10/20/08	238,007	238,335	244,001	0.368	0.369	0.378
10/21/08	238,995	215,201	248,714	0.370	0.333	0.385
10/22/08	263,000	246,667	255,286	0.407	0.382	0.395
10/23/08	264,000	255,332	252,285	0.408	0.395	0.390
10/24/08	182,003	236,334	237,572	0.282	0.366	0.368
10/25/08	182,007	209,337	229,431	0.282	0.324	0.355
10/26/08	181,976	181,995	221,427	0.282	0.282	0.343
10/27/08	182,007	181,997	213,427	0.282	0.282	0.330
10/28/08	182,007	181,997	205,286	0.282	0.282	0.318
Total (af)				483		