

**Stream Name** Illinois River  
**Site ID** ("IR59" in other AWRC publications)  
**Site Location** Illinois River on Highway 59  
**GPS Coordinates** 36°06'33"N, 94°32'04"W  
**USGS Station ID** 07195430  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N	Chloride	Nitrate-N	Soluble Reactive P	Sulfate	Total N	Total P	Total Suspended Solids	Turbidity	Conductivity	Dissolved Oxygen	pH	Temperature
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	µS/cm	mg/L	
7/7/2009	10:00	0.02	13.3	2.49	0.061	11.9	2.64	0.080	6	6	339	7.3	7.9	24.6
7/14/2009	7:45	0.03	15.1	2.51	0.067	14.4	2.73	0.088	9	9	343	5.8	7.8	26.5
7/21/2009	9:30	<0.01	15.8	2.32	0.056	14.9	2.50	0.086	10	7	335	6.7	7.8	23.3
7/28/2009	7:45	0.03	15.8	2.34	0.062	14.9	2.52	0.102	9	9	338	7.1	7.8	23.8
8/4/2009	7:30	0.03	15.6	2.21	0.058	15.2	2.31	0.084	7	7	342	7.2	7.7	25.0
8/11/2009	8:15	0.03	14.6	2.05	0.079	14.4	2.28	0.130	15	15	317	5.5	7.8	24.5
8/18/2009	0:00	0.06	16.6	2.10	0.066	15.6	2.19	0.096	8	8	345	8.1	7.9	24.3
8/25/2009	9:00	<0.01	16.3	2.00	0.065	16.9	2.19	0.092	6	6	343	6.5	7.9	22.9
9/1/2009	8:30	0.02	19.4	2.25	0.059	17.8	2.44	0.080	6	6	358	6.6	8.0	20.4
9/8/2009	8:00	0.33	14.5	1.94	0.072	15.5	2.15	0.112	10	9	325	6.0	7.7	22.5
9/10/2009	6:30	0.02	12.8	2.01	0.080	15.0	2.26	0.144	28	23	308	7.3	7.9	22.5
9/15/2009	8:00	0.01	14.8	2.18	0.073	15.0	2.32	0.106	7	7	333	7.8	7.8	21.3
9/22/2009	7:45	<0.01	12.5	2.16	0.132	13.8	2.34	0.204	22	23	300	7.2	7.8	20.3
9/29/2009	8:15	0.01	13.4	2.41	0.067	15.8	2.60	0.058	6	7	331	9.4	7.9	17.1
10/6/2009	7:45	0.02	16.1	2.62	0.058	16.8	2.86	0.096	4	5	353	8.8	7.9	17.1
10/9/2009	17:45	0.17	2.6	0.79	0.280	4.6	1.46	0.960	287	364	105	6.9	7.3	16.2
10/13/2009	8:30	0.06	7.1	2.62	0.099	11.0	2.81	0.168	24	25	234	8.3	7.7	16.0
10/20/2009	8:45	0.00	9.6	3.21	0.068	12.4	3.37	0.082	5	6	296	8.8	7.8	14.9
10/27/2009	7:45	0.00	10.9	3.00	0.061	12.8	3.16	0.082	5	5	305	10.2	7.9	14.0
10/30/2009	7:15	0.05	5.7	1.37	0.202	9.2	2.44	0.853	489	357	193	8.0	7.8	16.0
11/3/2009	8:15	0.02	7.5	2.91	0.058	10.9	3.05	0.076	6	9	266	9.5	7.8	14.0
11/10/2009	7:45	0.00	10.8	3.18	0.053	12.7	3.23	0.010	3	4	306	10.0	7.9	15.0
11/17/2009	8:00	0.03	11.8	2.85	0.035	13.6	3.00	0.062	3	3	322	10.9	8.0	11.5
11/23/2009	7:45	0.00	12.4	2.95	0.035	14.1	3.12	0.052	2	3	319	9.6	7.9	11.7
12/1/2009	8:30	0.00	12.6	2.88	0.024	12.8	3.02	0.032	2	2	318	11.2	8.1	8.8
12/8/2009	8:00	0.00	14.5	3.12	0.014	14.7	3.26	0.028	1	1	331	11.7	8.0	7.1
12/15/2009	8:30	0.00	14.8	3.07	0.010	15.2	3.18	0.016	2	3	335	11.6	8.2	6.2
12/21/2009	8:00	0.00	16.4	3.13	0.009	16.8	3.26	0.016	2	1	345	11.0	8.1	5.2
12/29/2009	15:45	13.1	2.45	0.017	0.017	15.0	2.58	0.034	2	3	301	14.7	8.7	4.8
1/5/2010	15:15	0.00	13.7	2.53	0.019	15.0	2.65	0.028	1	4	308	16.6	8.9	3.6
1/12/2010	8:15	0.00	16.4	3.08	0.012	16.6	3.17	0.016	1	2	342	13.8	8.1	1.7
1/19/2010	8:15	0.00	17.3	2.80	0.013	16.8	3.10	0.034	3	4	343	10.1	8.0	8.2
1/26/2010	8:15	0.04	12.4	2.24	0.043	15.8	2.50	0.044	5	9	284	12.8	8.0	5.8
2/3/2010	8:00	0.05	16.3	2.43	0.032	17.1	2.57	0.054	9	9	310	11.5	8.0	5.5
2/10/2010	8:15	0.00	12.0	2.84	0.043	13.8	3.00	0.064	5	9	281	11.3	8.0	4.4
2/16/2010	8:00	0.01	12.1	2.97	0.033	14.7	3.04	0.038	3	6	296	10.5	8.1	4.1
2/23/2010	8:00	0.00	13.7	2.41	0.036	16.0	2.59	0.068	7	11	291	10.8	8.0	5.9
3/2/2010	8:00	0.00	12.8	3.01	0.010	14.3	3.15	0.028	4	4	307	10.3	8.1	6.9
3/8/2010	8:15	0.00	13.5	3.00	0.010	15.2	3.17	0.034	5	5	316	8.7	8.0	11.3
3/16/2010	8:15	0.02	14.3	3.05	0.035	14.8	3.30	0.050	3	4	323	9.0	8.0	10.6
3/22/2010	11:45	0.05	12.1	1.99	0.049	16.2	2.27	0.110	16	21	263	11.2	8.1	9.3
3/30/2010	8:15	0.00	8.3	3.12	0.041	12.0	3.30	0.052	10	10	263	9.6	7.9	11.1
4/7/2010	17:00	0.02	10.1	2.79	0.035	11.9	2.97	0.064	9	10	280	9.4	8.2	18.0
4/13/2010	7:45	0.00	11.3	2.72	0.005	12.2	2.84	0.036	8	7	295	8.2	8.0	16.1
4/20/2010	8:00	0.00	12.1	2.96	0.022	12.3	3.19	0.044	6	5	312	7.8	7.9	14.2
4/27/2010	8:00	0.05	12.0	2.48	0.042	13.3	2.56	0.066	6	7	302	8.3	7.9	13.6
5/4/2010	8:00	0.03	13.4	2.49	0.017	13.7	2.74	0.048	7	7	323	7.2	7.9	16.7
5/11/2010	8:15	0.04	14.1	2.66	0.047	14.8	2.92	0.076	13	12	326	7.6	7.8	16.7
5/14/2010	7:15	0.09	13.9	2.62	0.058	15.0	2.76	0.112	28	19	326	7.3	7.9	18.6
5/14/2010	13:45	0.09	10.3	2.00	0.086	11.9	2.22	0.242	85	72	272	7.3	7.8	18.8
5/15/2010	7:30	0.12	5.8	1.21	0.103	8.2	1.69	0.402	133	160	182	7.7	7.8	17.9
5/18/2010	8:00	0.01	7.8	1.98	0.064	10.7	2.21	0.129	26	26	249	7.6	7.8	17.4
5/25/2010	17:15	0.00	9.2	2.65	0.057	11.0	2.84	0.102	18	16	284	7.9	7.8	23.0
6/1/2010	7:45	0.01	10.4	2.81	0.058	12.2	2.85	0.088	11	11	303	6.7	7.8	21.7
6/8/2010	8:00	0.01	11.9	2.70	0.049	12.5	2.84	0.086	14	11	315	6.8	7.8	22.6
6/15/2010	7:45	0.05	12.7	2.53	0.060	13.2	2.70	0.086	9	10	322	6.4	7.8	23.1
6/23/2010	8:00	0.01	15.0	2.34	0.058	14.0	2.41	0.118	2	9	339	5.8	7.8	26.4

**Stream Name** Ballard Creek  
**Site ID** ("Ballard" in other AWRC publications)  
**Site Location** Ballard Creek at Ballard Creek Road  
**GPS Coordinates** 35°59'49"N, 94°31'37"W  
**USGS Station ID** N/A (AWRC station)  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	9:10	0.07	13.1	2.57	0.055	12.1	2.87	0.082	3	2	414	5.3	7.5	21.3
7/14/2009	7:10	0.06	12.9	2.25	0.061	11.2	2.65	0.098	3	4	385	2.5	7.3	25.0
7/21/2009	8:00	0.06	11.4	1.45	0.074	9.5	1.85	0.136	9	8	307	4.4	7.4	22.5
7/28/2009	7:20	0.05	12.7	2.05	0.073	10.2	2.28	0.100	2	4	390	2.7	7.3	22.7
8/4/2009	7:15	0.03	12.3	1.76	0.077	10.1	2.17	0.170	5	6	370	2.4	7.3	24.5
8/11/2009	7:30	0.10	11.0	1.26	0.210	10.5	1.90	0.306	11	12	314	4.3	7.5	23.3
8/18/2009	7:30	0.17	12.4	1.91	0.098	10.4	2.19	0.152	3	3	379	3.6	7.4	22.8
8/25/2009	8:15	0.04	11.8	1.90	0.091	11.0	2.24	0.130	3	4	365	3.2	7.4	21.5
9/1/2009	7:45	0.07	12.1	1.52	0.125	12.3	1.89	0.176	5	5	376	4.2	7.5	18.1
9/8/2009	7:30	0.35	10.6	2.51	0.162	17.4	3.04	0.234	7	11	295	5.5	7.4	21.0
9/10/2009	8:45	0.24	7.0	0.36	0.379	14.5	1.45	1.048	214	195	157	7.4	7.5	21.8
9/15/2009	7:30	0.09	9.3	1.97	0.294	14.1	2.62	0.432	11	18	221	8.0	7.4	20.8
9/22/2009	7:00	<0.01	5.0	1.27	0.770	7.9	2.15	1.024	33	39	135	7.5	7.2	19.4
9/29/2009	7:45	0.00	10.4	4.70	0.075	14.4	5.21	0.100	1	4	348	9.9	7.5	14.7
10/6/2009	7:15	0.02	11.0	4.56	0.064	14.4	4.71	0.136	25	24	379	8.4	7.6	16.5
10/9/2009	9:30	0.09	1.9	0.71	0.631	4.0	1.29	0.872	62	68	73	8.4	7.4	14.9
10/13/2009	8:00	0.04	7.6	2.66	0.203	14.5	3.09	0.280	7	14	227	8.8	7.5	15.6
10/20/2009	8:00	0.02	9.3	4.11	0.064	14.5	4.21	0.084	2	4	316	8.1	7.5	14.4
10/27/2009	7:15	0.13	9.2	0.90	0.376	16.6	1.62	0.524	23	30	220	10.9	7.6	12.4
11/3/2009	7:30	0.02	8.0	3.27	0.062	13.8	3.44	0.082	2	7	264	9.8	7.5	12.8
11/10/2009	7:15	0.03	10.0	3.68	0.045	14.9	3.79	0.046	1	3	327	9.5	7.6	14.3
11/17/2009	7:30	0.05	10.2	2.07	0.051	17.5	2.41	0.102	4	10	260	11.4	7.7	9.7
11/23/2009	7:15	0.03	10.1	2.26	0.024	18.2	2.50	0.050	2	4	291	9.1	7.7	11.5
12/1/2009	8:00	0.00	11.1	2.38	0.020	19.5	2.54	0.032	2	3	311	11.3	7.8	6.7
12/8/2009	7:30	0.00	10.7	2.87	0.010	18.9	2.98	0.120	1	2	346	11.0	7.7	6.9
12/15/2009	8:00	0.00	11.1	2.29	0.007	21.4	2.43	0.020	1	2	325	11.7	7.8	4.3
12/21/2009	7:15	0.00	11.6	2.76	0.005	21.0	2.94	0.008	1	3	348	10.6	7.9	3.8
12/29/2009	15:15		11.9	1.89	0.009	26.1	2.10	0.026	2	3	293	14.9	8.7	4.9
1/5/2010	14:30	0.00	12.4	2.31	0.018	26.7	2.60	0.030	1	4	321	16.6	8.3	1.8
1/12/2010	7:45	0.00	12.2	3.12	0.017	24.2	3.24	0.024	1	2	373	13.5	7.9	0.6
1/19/2010	7:45	0.00	11.6	2.15	0.014	24.0	2.51	0.052	5	2	321	13.3	7.7	8.0
1/26/2010	7:45	0.01	10.7	2.30	0.048	21.3	2.59	0.074	3	10	241	14.4	7.9	3.6
2/3/2010	7:30	0.07	12.3	1.88	0.176	20.1	2.27	0.244	5	15	209	12.8	7.8	3.3
2/10/2010	7:45	0.01	12.1	2.78	0.053	19.0	3.02	0.084	2	8	253	12.1	7.8	2.9
2/16/2010	7:30	0.02	11.2	2.84	0.028	20.1	2.94	0.038	2	5	275	10.8	7.9	3.0
2/23/2010	7:30	0.03	11.1	2.17	0.053	20.7	2.37	0.098	4	9	242	11.8	7.8	3.7
3/2/2010	7:30	0.00	11.4	2.91	0.016	20.6	3.11	0.032	3	5	307	10.2	7.8	6.0
3/8/2010	7:45	0.00	11.7	2.92	0.022	20.8	3.06	0.044	2	3	340	7.9	7.6	10.6
3/16/2010	7:45	0.08	12.1	2.32	0.039	22.8	2.68	0.066	4	5	314	8.0	7.7	9.8
3/22/2010	11:24	0.12	10.9	1.36	0.167	18.8	1.89	0.262	12	24	99	12.3	8.2	7.2
3/30/2010	7:45	0.02	8.3	3.23	0.061	16.0	3.47	0.080	4	10	251	9.8	7.6	10.2
4/7/2010	16:30	0.02	8.7	2.58	0.045	16.3	2.85	0.078	5	8	264	10.5	8.4	20.2
4/13/2010	7:30	0.01	10.1	3.16	0.018	16.1	3.31	0.040	3	4	325	7.5	7.7	14.8
4/20/2010	7:30	0.00	10.8	3.11	0.015	16.5	3.37	0.026	2	3	350	7.3	7.7	12.5
4/27/2010	7:20	0.06	10.6	2.75	0.026	19.0	2.87	0.054	2	5	325	7.6	7.6	11.6
5/4/2010	7:30	0.07	11.4	3.20	0.033	16.4	3.45	0.056	3	4	374	5.6	7.5	15.7
5/11/2010	7:45	0.08	11.3	3.19	0.028	15.1	3.43	0.050	3	3	369	5.7	7.5	16.8
5/14/2010	13:15	0.38	5.4	0.60	0.478	10.3	1.78	1.528	367	335	167	7.4	7.7	17.4
5/18/2010	7:15	0.04	7.3	1.39	0.115	17.5	1.79	0.194	11	19	217	7.7	7.7	16.4
5/25/2010	11:30	0.03	9.5	2.82	0.089	15.9	3.12	0.130	5	6	317	9.6	7.9	23.8
6/1/2010	7:30	0.05	11.1	3.03	0.092	15.0	3.20	0.118	4	4	365	4.6	7.5	21.2
6/8/2010	7:30	0.10	10.1	2.68	0.170	13.4	3.09	0.260	10	13	336	4.7	7.5	21.7
6/15/2010	7:15	0.07	10.8	2.65	0.178	12.9	3.04	0.234	8	9	352	4.9	7.6	22.1
6/23/2010	7:30	0.08	12.0	2.44	0.106	12.8	2.79	0.182	6	4	384	2.6	7.4	26.0

**Stream Name** Baron Fork  
**Site ID** ("Baron" in other AWRP publications)  
**Site Location** Baron Fork at Dutch Mills  
**GPS Coordinates** 35°52'48"N, 94°29'11"W  
**USGS Station ID** 07196900  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	8:15	0.06	9.8	1.02	0.040	15.4	1.23	0.062	2	3	343	4.7	7.6	23.6
7/14/2009	6:40	0.07	10.0	0.44	0.029	13.3	0.78	0.052	5	6	324	6.8	7.7	27.8
7/21/2009	8:45	0.15	9.6	0.33	0.031	12.2	0.52	0.072	14	16	303	6.7	7.6	24.1
7/28/2009	6:50	0.10	10.7	0.45	0.027	14.0	0.65	0.054	4	6	321	7.0	7.6	25.0
8/4/2009	6:45	0.04	10.8	0.65	0.034	14.3	0.84	0.060	5	5	328	7.0	7.6	26.6
8/11/2009	7:15	0.08	9.3	0.86	0.080	11.9	1.22	0.140	7	11	284	4.7	7.7	24.2
8/18/2009	7:00	0.12	9.9	0.45	0.033	16.3	0.73	0.076	5	7	325	7.4	7.8	25.5
8/25/2009	7:45	0.01	10.1	0.53	0.035	15.5	0.78	0.063	6	6	322	6.7	7.8	23.3
9/1/2009	7:30	0.06	9.2	0.85	0.047	16.8	1.07	0.080	6	6	324	5.5	7.9	20.8
9/5/2009	12:00	0.19	3.2	0.86	0.477	7.4	2.17	0.550	175	183	314	5.4	7.8	21.7
9/8/2009	7:00	0.14	6.4	1.91	0.089	17.9	2.24	0.110	7	8	155	8.7	7.7	21.0
9/10/2009	9:00	0.08	2.6	0.91	0.284	8.7	1.47	0.566	82	114	311	7.8	7.8	20.6
9/15/2009	7:00	0.03	6.4	1.89	0.087	18.0	2.15	0.116	7	9	164	8.0	7.5	19.4
9/22/2009	6:30	0.11	3.0	1.54	0.206	8.7	2.16	0.314	34	52	342	8.6	7.8	15.5
9/29/2009	7:00	0.00	7.0	3.43	0.060	15.2	3.59	0.074	1	2	342	8.6	7.8	15.5
10/6/2009	6:45	0.02	7.8	3.16	0.047	15.1	3.37	0.062	1	1	351	8.3	7.8	16.4
10/9/2009	10:00	0.11	1.7	0.98	0.272	5.1	1.47	0.494	71	97	105	8.5	7.5	15.0
10/13/2009	7:30	0.02	5.5	3.10	0.066	13.8	3.30	0.084	3	5	280	8.6	7.7	16.0
10/20/2009	7:30	0.00	6.1	3.42	0.058	16.3	3.51	0.058	1	2	319	9.0	7.8	14.2
10/27/2009	7:00	0.03	5.2	1.43	0.059	15.1	1.68	0.076	4	7	253	10.4	7.9	13.0
11/3/2009	7:15	0.00	5.2	2.68	0.047	13.4	2.83	0.050	2	3	288	9.9	7.8	12.7
11/10/2009	6:45	0.05	6.3	2.97	0.039	18.1	3.10	0.048	3	3	327	9.3	7.8	14.4
11/17/2009	7:00	0.00	6.5	2.37	0.031	17.8	2.50	0.044	2	2	311	11.1	7.9	10.1
11/23/2009	6:45	0.01	6.5	2.06	0.023	16.1	2.19	0.040	1	2	305	9.0	7.9	11.6
12/1/2009	7:30	0.00	6.7	2.12	0.025	18.4	2.22	0.040	7	3	308	10.7	8.0	7.1
12/8/2009	7:15	0.01	6.8	2.35	0.017	16.5	2.48	0.042	0	2	313	11.0	7.9	6.8
12/15/2009	7:30	0.00	7.3	2.17	0.022	17.9	2.27	0.022	1	3	310	10.7	8.0	5.4
12/21/2009	7:00	0.00	8.0	2.41	0.014	18.3	2.53	0.016	0	3	319	12.0	8.0	4.2
12/29/2009	14:45		6.9	1.73	0.025	20.3	1.83	0.025	1	2	286	14.3	8.6	4.2
1/5/2010	14:00	0.00	6.8	1.87	0.019	20.0	1.99	0.024	0	2	300	16.6	8.5	1.8
1/12/2010	7:15	0.00	7.6	2.37	0.017	19.6	2.51	0.020	1	2	321	13.5	7.9	0.7
1/19/2010	7:15	0.00	8.0	1.77	0.015	21.5	1.98	0.036	2	1	307	9.2	7.9	7.6
1/26/2010	7:30	0.01	5.8	1.86	0.030	18.7	2.03	0.026	1	4	262	13.5	8.0	4.6
2/3/2010	7:00	0.02	6.1	1.72	0.033	18.7	1.90	0.046	1	7	237	12.3	8.0	4.2
2/10/2010	7:15	0.00	6.1	2.36	0.032	17.2	2.54	0.038	2	3	268	12.1	8.0	2.7
2/16/2010	7:00	0.02	6.4	2.34	0.027	17.9	2.41	0.034	1	3	279	10.7	8.0	3.1
2/23/2010	7:00	0.00	6.3	1.94	0.031	19.5	1.98	0.038	1	3	263	11.7	8.0	4.6
3/2/2010	7:00	0.00	6.9	2.38	0.025	20.2	2.51	0.038	2	3	304	10.4	8.0	6.2
3/8/2010	7:00	0.00	7.3	2.32	0.027	19.6	2.42	0.032	3	3	316	8.8	7.9	10.2
3/16/2010	7:15	0.02	7.2	2.02	0.031	21.0	2.27	0.050	3	3	310	8.4	7.9	10.2
3/22/2010	11:02	0.04	5.3	1.43	0.045	18.6	1.68	0.088	4	14	165	12.1	8.3	7.7
3/30/2010	7:00	0.00	5.3	3.69	0.040	15.3	3.70	0.036	3	6	274	9.9	7.9	9.3
4/7/2010	16:15	0.01	5.5	2.04	0.037	16.1	2.24	0.048	2	3	276	10.2	8.4	20.1
4/13/2010	6:45	0.01	6.3	2.24	0.029	16.1	2.36	0.036	3	2	305	7.5	7.8	15.0
4/20/2010	7:00	0.02	7.2	2.25	0.028	16.2	2.48	0.032	2	2	314	7.6	7.8	12.8
4/27/2010	6:45	0.01	6.2	1.74	0.029	17.2	1.80	0.038	2	3	302	8.1	7.9	12.1
5/4/2010	7:00	0.07	6.7	1.67	0.032	17.3	1.91	0.054	3	3	310	6.0	7.8	16.3
5/11/2010	7:15	0.06	5.2	1.39	0.059	17.8	1.86	0.122	12	27	264	7.7	7.8	16.0
5/13/2010	21:30	0.28	3.4	0.92	0.098	11.6	1.79	0.264	44	84	184	7.3	8.0	18.3
5/14/2010	12:45	0.15	2.7	0.64	0.199	8.1	1.45	0.800	270	272	129	8.9	7.8	16.8
5/18/2010	7:00	0.00	4.3	1.43	0.049	14.6	1.64	0.072	5	8	264	7.8	7.9	15.4
5/25/2010	11:00	0.01	6.0	2.11	0.048	14.6	2.29	0.066	4	4	311	9.0	7.9	22.0
6/1/2010	7:00	0.03	6.8	2.24	0.047	14.9	2.33	0.064	3	4	334	5.3	7.7	21.6
6/8/2010	7:00	0.03	6.4	1.99	0.060	15.3	2.20	0.082	4	5	312	5.6	7.7	22.4
6/15/2010	7:00	0.04	7.3	1.68	0.051	14.3	1.89	0.074	4	5	327	5.5	7.7	23.4
6/23/2010	7:00	0.05	8.3	0.86	0.038	14.1	1.02	0.084	6	4	317	4.6	7.7	27.2

**Stream Name** Flint Creek  
**Site ID** ("FC12" in other AWRC publications)  
**Site Location** Flint Creek at Springtown  
**GPS Coordinates** 36°15'22"N, 94°26'01"W  
**USGS Station ID** 07195800  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	0:45	<0.01	7.3	3.15	0.053	4.6	3.25	0.058			255	8.8	7.7	20.1
7/14/2009	9:15	0.02	7.2	3.17	0.058	4.1	3.34	0.058	1	1	248	8.0	7.7	19.5
7/21/2009	10:45	<0.01	6.8	3.00	0.051	3.8	2.99	0.072	2	5	239	8.0	7.7	18.6
7/28/2009	9:15	0.03	7.3	3.05	0.048	4.1	3.11	0.054	1	1	249	9.1	7.8	18.8
8/4/2009	9:15	1.02	7.3	2.98	0.046	3.7	3.02	0.058	1	1	248	7.3	7.7	19.5
8/11/2009	9:30	<0.01	7.1	2.84	0.051	3.5	3.04	0.076	1	2	248	7.1	7.8	19.2
8/18/2009	9:30	<0.01	7.2	2.92	0.047	3.6	2.93	0.058	<1	2	249	10.2	7.9	19.2
8/25/2009	10:15	<0.01	7.3	2.93	0.081	3.6	3.18	0.081	1	1	250	7.4	7.9	19.0
9/1/2009	10:00	0.04	7.4	2.89	0.044	3.6	3.05	0.056	2	1	248	7.8	7.9	17.6
9/8/2010	9:30	0.07	11.8	0.75	0.026	27.3	0.88	0.046	3	3	247	7.2	7.8	19.2
9/15/2009	9:30	0.01	7.5	2.65	0.051	3.8	2.71	0.064	1	1	249	9.1	7.8	18.8
9/22/2009	9:15	0.02	7.4	2.57	0.084	4.4	2.70	0.144	3	6	245	7.9	7.6	18.2
9/29/2010		0.00	7.4	2.86	0.045	4.0	3.01	0.054	1	1	252	10.0	7.8	15.6
10/6/2009	9:15	0.03	7.4	2.82	0.046	3.7	2.99	0.054	0	1	249	8.1	7.7	16.8
10/9/2009	8:00	0.20	2.6	2.29	0.726	4.4	3.47	1.660	561	378	125	8.5	7.5	14.7
10/13/2009	10:00	0.01	5.3	4.12	0.068	7.9	4.20	0.086	2	4	193	8.8	7.3	15.8
10/20/2009	10:00	0.00	5.7	3.73	0.058	6.7	3.79	0.058	0	1	213	8.5	7.6	15.5
10/27/2009	9:00	0.01	5.8	3.25	0.056	6.6	3.44	0.066	2	3	212	10.2	7.5	14.6
11/3/2009	9:30	0.02	5.6	3.94	0.057	7.5	4.04	0.062	1	2	206	8.8	7.5	14.5
11/10/2009	9:15	0.00	6.1	3.48	0.048	6.0	3.51	0.060	0	2	219	10.5	7.7	15.1
11/17/2009	9:30	0.00	6.6	3.32	0.044	5.1	3.40	0.056	0	1	226	10.6	7.8	13.1
11/23/2009	9:30	0.02	20.1	4.29	0.051	22.4	4.42	0.062	1	1	229	9.7	7.8	13.0
12/1/2009	10:00	0.00	6.9	3.28	0.021	4.4	3.32	0.050	1	1	229	11.6	7.9	11.2
12/8/2009	9:15	0.00	6.9	3.36	0.037	4.1	3.43	0.046	0	1	232	10.5	7.8	10.5
12/15/2009	9:45	0.00	7.1	3.32	0.036	4.0	3.38	0.036	1	2	231	11.6	8.0	8.7
12/21/2009	9:15	0.00	7.6	3.41	0.033	4.1	3.43	0.036	0	2	233	10.7	8.0	8.5
12/29/2009	17:15		7.2	3.27	0.032	4.2	3.38	0.040	1	1	232	11.5	7.9	9.2
1/5/2010	17:00	0.00	7.1	3.41	0.033	4.7	3.42	0.040	0	2	231	13.3	8.1	7.5
1/12/2010	9:45	0.00	7.1	3.50	0.030	4.4	3.46	0.036	0	2	231	12.8	8.1	6.8
1/19/2010	9:45	0.00	7.3	3.29	0.034	4.2	3.45	0.042	1	1	232	11.0	8.0	10.3
1/26/2010	9:45	0.00	6.9	3.72	0.038	5.9	4.15	0.028	1	2	226	10.6	7.9	8.4
2/3/2010	9:30	0.07	7.2	3.46	0.035	5.4	3.56	0.050	0	3	226	11.7	7.9	7.9
2/10/2010	9:45	0.01	6.3	4.34	0.039	7.1	4.72	0.046	0	3	207	11.3	7.8	7.8
2/16/2010	9:30	0.03	6.4	4.07	0.036	6.3	4.42	0.038	0	3	214	10.2	7.9	7.4
2/23/2010	9:30	0.00	6.9	3.83	0.034	5.8	3.80	0.040	1	2	216	11.3	7.9	8.3
3/2/2010	9:30	0.00	7.0	3.93	0.034	5.4	3.93	0.040	1	2	223	10.3	7.8	8.3
3/8/2010	9:45	0.00	7.2	3.76	0.033	4.9	3.77	0.032	1	2	228	10.1	7.9	10.6
3/16/2010	9:30	0.00	7.0	3.43	0.036	4.5	3.58	0.042	1	1	227	9.9	7.9	10.2
3/22/2010	13:10	0.01	6.9	3.12	0.054	4.8	3.29	0.078	4	6	162	11.0	8.1	11.9
3/30/2010	9:30	0.00	5.4	5.00	0.050	7.4	5.36	0.046	2	4	185	10.4	7.7	11.3
4/7/2010	18:15	0.01	6.0	3.93	0.049	5.8	3.93	0.050	2	2	202	9.3	7.7	14.8
4/13/2010	9:15	0.02	6.3	3.67	0.039	5.1	3.67	0.046	1	1	213	10.0	7.8	13.5
4/20/2010	9:30	0.01	6.6	3.42	0.039	4.4	3.53	0.042	1	2	220	9.3	7.8	13.0
4/27/2010	9:30	0.10	6.7	3.27	0.042	4.3	3.27	0.052	1	2	223	8.7	7.8	12.9
5/4/2010	9:15	0.05	6.7	3.21	0.042	4.2	3.31	0.052	1	2	228	8.4	7.7	14.0
5/11/2010	9:45	0.06	6.7	3.15	0.046	4.0	3.26	0.060	1	1	229	9.0	7.7	14.9
5/14/2010	14:00	0.19	5.0	1.99	0.290	3.5	2.49	0.450	33	44	189	8.3	7.7	16.2
5/18/2010	9:30	0.00	5.9	3.65	0.062	6.3	3.75	0.078	2	3	209	9.0	7.6	14.9
5/20/2010	7:15	0.11	2.7	1.82	0.379	4.4	2.47	0.734	162	127	132	8.6	7.6	17.2
5/25/2010	13:30	0.00	5.4	3.74	0.064	6.8	3.82	0.078	3	3	193	9.2	7.6	17.6
6/1/2010	9:15	0.00	5.2	3.33	0.062	6.4	5.41	0.072	2	2	200	8.0	7.5	16.7
6/8/2010	9:30	0.05	5.7	3.17	0.056	5.4	3.24	0.068	2	1	215	8.3	7.7	17.7
6/15/2010	9:15	0.03	6.2	3.07	0.059	4.4	3.20	0.068	2	3	228	7.8	7.6	17.8
6/23/2010	9:30	0.03	6.6	3.33	0.060	4.6	3.40	0.138	6	2	238	7.8	7.8	19.1

**Stream Name** Flint Creek  
**Site ID** ("FCWSS" in other AWRC publications)  
**Site Location** Flint Creek near West Siloam Springs  
**GPS Coordinates** 36°12'58"N, 94°36'19"W  
**USGS Station ID** 07195855  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	11:45	0.03	11.8	1.07	0.027	25.0	1.23	0.036	4	3	310	7.3	7.7	24.1
7/14/2009	8:45	0.02	11.9	0.97	0.029	26.5	1.14	0.056	3	4	305	5.8	7.6	25.4
7/21/2009	10:15	0.01	11.5	0.86	0.032	26.0	1.01	0.052	6	6	291	6.4	7.6	22.7
7/28/2009	8:45	<0.01	11.8	0.87	0.028	25.5	1.01	0.052	4	2	287	7.1	7.6	23.5
8/4/2009	8:45	<0.01	11.9	0.84	0.026	26.1	0.94	0.042	3	3	302	6.3	7.6	24.4
8/11/2009	9:00	0.01	11.0	0.83	0.030	22.0	1.01	0.056	5	6	277	5.5	7.6	23.8
8/18/2009	9:00	<0.01	11.9	0.74	0.030	25.0	0.85	0.046	3	4	298	7.7	7.7	23.4
8/25/2009	9:45	<0.01	11.8	0.73	0.027	24.5	0.84	0.042	3	4	295	5.8	7.6	22.7
9/1/2009	9:30	0.03	12.3	0.71	0.025	26.4	0.84	0.038	3	3	302	6.3	7.7	20.2
9/8/2009	9:00	0.03	7.0	2.83	0.044	3.5	2.95	0.056	1	1	307	5.7	7.5	22.2
9/15/2009	9:00	<0.01	11.3	1.00	0.031	21.5	1.13	0.048	3	3	296	7.4	7.6	21.6
9/22/2009	8:30	0.01	10.3	1.50	0.036	15.7	1.63	0.062	10	9	284	6.9	7.6	20.6
9/29/2009	9:00	0.17	11.1	1.36	0.025	21.1	1.51	0.038	11	2	302	9.1	7.7	17.1
10/6/2009	8:45	0.01	11.4	1.28	0.024	23.0	1.47	0.034	2	2	302	7.5	7.6	18.1
10/9/2009	8:45	0.07	4.1	1.78	0.280	6.2	2.51	0.648	245	165	157	8.0	7.6	15.7
10/13/2009	9:15	0.02	7.6	3.31	0.063	15.3	3.44	0.092	7	8	248	8.6	7.7	16.3
10/20/2009	9:30	0.00	9.2	2.79	0.037	20.3	2.95	0.040	1	2	284	8.6	7.7	15.9
10/27/2009	8:30	0.01	8.3	2.57	0.042	16.5	2.74	0.054	7	6	268	9.9	7.7	14.7
11/3/2009	9:00	0.04	8.9	2.80	0.029	18.0	2.93	0.029	2	2	276	8.4	7.8	14.4
11/10/2009	8:30	0.02	10.7	2.40	0.025	24.0	2.66	0.038	1	2	302	9.4	7.8	15.8
11/17/2009	9:00	0.02	11.4	2.14	0.017	28.1	2.26	0.032	2	2	314	10.4	7.8	12.8
11/23/2009	9:00	0.00	11.8	1.91	0.018	30.2	2.05	0.026	1	2	321	9.1	7.8	13.2
12/1/2009	9:30	0.00	12.4	1.70	0.021	33.4	1.83	0.024	1	2	326	11.0	7.9	10.9
12/8/2009	8:45	0.00	12.1	1.94	0.018	30.5	2.02	0.018	1	1	337	10.5	7.9	7.8
12/15/2009	9:15	0.00	12.1	1.95	0.015	31.0	1.99	0.028	1	1	321	11.2	7.9	7.7
12/21/2009	8:45	0.00	12.4	1.88	0.012	32.5	1.97	0.014	1	1	324	10.3	7.9	7.6
12/29/2009	16:45		12.4	1.66	0.014	33.9	1.77	0.022	1	1	323	12.2	8.1	8.2
1/5/2010	16:55	0.00	12.5	1.75	0.015	33.4	1.86	0.042	1	2	270	15.4	8.5	1.9
1/12/2010	9:15	0.01	12.0	2.29	0.014	28.8	2.29	0.020	1	2	332	13.5	8.1	1.0
1/19/2010	9:15	0.00	12.7	1.61	0.012	34.8	1.76	0.020	2	2	313	10.1	7.9	7.5
1/26/2010	9:00	0.00	11.5	2.39	0.015	24.4	2.56	0.008	1	3	230	11.9	7.9	4.4
2/3/2010	9:00	0.03	11.5	2.27	0.006	25.4	2.41	0.020	2	2	238	12.2	8.0	4.6
2/10/2010	9:15	0.01	10.4	3.09	0.021	18.5	3.15	0.028	2	3	248	11.9	8.1	3.9
2/16/2010	9:00	0.01	11.0	2.70	0.018	22.3	2.88	0.030	1	3	261	10.5	7.9	3.6
2/23/2010	8:45	0.01	10.9	2.70	0.013	23.1	2.76	0.024	2	2	235	10.3	7.9	5.1
3/2/2010	9:00	0.00	11.4	2.44	0.009	26.8	2.56	0.020	2	2	282	10.5	8.0	6.8
3/8/2010	9:00	0.00	11.9	2.19	0.012	30.3	2.25	0.016	2	2	307	9.2	7.8	10.8
3/16/2010	9:00	0.02	11.9	1.96	0.015	30.6	2.18	0.022	2	2	304	8.9	7.9	10.7
3/22/2010	12:45	0.05	11.3	2.23	0.013	23.3	2.39	0.044	3	3	169	11.3	8.0	7.4
3/30/2010	9:00	0.01	8.4	3.40	0.030	17.6	3.56	0.030	4	5	245	9.4	7.8	10.4
4/7/2010	17:45	0.03	10.3	2.47	0.025	22.8	2.65	0.036	5	4	285	10.1	8.7	18.3
4/13/2010	8:45	0.01	10.9	2.10	0.006	26.0	2.22	0.018	4	3	303	8.8	7.9	15.5
4/20/2010	8:45	0.00	11.4	1.75	0.017	29.3	1.93	0.022	3	3	316	8.3	7.9	14.8
4/27/2010	8:45	0.03	11.7	1.70	0.022	29.5	1.75	0.034	4	4	318	8.1	7.8	14.6
5/4/2010	8:45	0.04	11.6	1.51	0.021	30.8	1.68	0.044	4	4	321	7.2	7.8	16.9
5/11/2010	9:15	0.02	11.6	1.43	0.023	30.3	1.60	0.032	3	3	319	7.7	7.8	17.9
5/14/2010	18:00	0.04	9.6	1.65	0.042	17.5	1.88	0.108	16	15	277	7.6	7.9	19.6
5/18/2010	9:00	0.00	9.3	2.13	0.022	17.0	2.25	0.046	7	4	241	8.0	7.8	17.7
5/20/2010	7:45	0.00	5.8	2.39	0.123	7.3	2.75	0.486	255	166	206	8.7	7.8	16.0
5/25/2010	13:00	0.01	8.3	2.46	0.035	17.7	2.60	0.058	8	6	266	8.2	7.8	22.9
6/1/2010	8:30	0.02	9.6	1.82	0.026	22.2	2.34	0.056	20	4	272	6.6	7.7	21.7
6/8/2010	9:00	0.03	10.5	1.40	0.027	26.9	1.69	0.048	5	3	299	6.9	7.8	22.9
6/15/2010	8:45	0.04	10.2	1.31	0.033	25.1	1.47	0.052	9	6	295	6.5	7.7	22.7
6/23/2010	9:00	0.02	11.5	0.92	0.028	30.2	1.00	0.058	2	4	312	6.4	7.7	25.2

**Stream Name** Illinois River  
**Site ID** ("Watts" in other AWRC publications)  
**Site Location** Illinois River near Watts  
**GPS Coordinates** 36°07'47"N, 94°34'18"W  
**USGS Station ID** 07195500  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	10:45	0.02	13.6	2.42	0.062	12.1	2.61	0.058	14	12	338	7.3	8.0	25.1
7/14/2009	8:15	0.06	15.5	2.28	0.060	14.4	2.49	0.090	11	12	333	7.0	8.1	28.5
7/21/2009	9:45	0.02	16.8	2.12	0.054	15.4	2.24	0.090	12	12	335	7.8	8.1	24.9
7/28/2009	8:15	0.02	16.0	2.10	0.059	15.2	2.27	0.098	12	12	335	8.5	8.1	25.0
8/4/2009	8:15	0.02	15.1	1.97	0.057	14.8	2.14	0.096	10	9	327	8.0	8.1	26.7
8/11/2009	8:30	0.02	15.4	1.89	0.067	15.8	2.11	0.120	15	14	326	6.7	8.0	26.7
8/18/2009	8:30	0.05	16.8	1.87	0.060	15.5	2.02	0.108	11	13	334	9.7	8.2	25.8
8/25/2009	9:15	0.03	16.0	1.83	0.061	16.7	2.02	0.096	10	11	334	7.2	8.2	24.5
9/1/2009	9:00	0.01	19.4	2.03	0.057	17.7	2.20	0.092	12	11	353	7.6	8.2	22.1
9/8/2009	8:30	0.03	13.5	1.71	0.077	14.7	2.17	0.134	15	13	305	7.2	8.0	24.0
9/10/2009	7:00	0.03	15.3	2.16	0.090	16.1	2.45	0.156	25	20				22.5
9/15/2009	8:30	0.04	12.8	1.79	0.138	13.9	2.03	0.202	16	16	299	9.2	7.9	21.5
9/22/2009	8:00	0.20	7.3	1.31	0.484	8.9	2.07	0.954	167	159	181	8.6	7.6	19.9
9/29/2009	8:30	0.02	12.9	2.34	0.069	15.5	2.52	0.108	14	13	327	10.2	8.1	18.8
10/6/2009	8:15	0.04	16.0	2.47	0.060	17.0	2.74	0.088	12	10	348	10.0	8.1	17.1
10/9/2009	18:30	0.38	3.0	0.88	0.266	4.8	1.61	1.098	346	398	108	7.1	7.3	16.3
10/13/2009	8:45	0.05	6.9	2.64	0.101	10.9	2.89	0.168	23	25	233	9.7	7.7	15.9
10/20/2009	9:00	0.01	9.4	3.19	0.071	12.0	3.32	0.090	7	7	291	9.8	7.9	14.8
10/27/2009	8:15	0.01	10.4	2.91	0.063	12.5	3.11	0.082	5	4	299	11.5	8.0	14.0
10/30/2009	7:45	0.02	6.3	1.74	0.144	9.9	2.32	0.730	324	212	212	10.0	7.8	15.4
11/3/2009	8:30	0.03	7.6	2.86	0.060	10.9	3.01	0.092	6	9	263	9.1	7.8	14.1
11/10/2009	8:00	0.02	10.4	3.15	0.053	12.3	3.61	0.084	4	5	302	10.9	8.0	15.3
11/17/2009	8:30	0.01	11.3	3.06	0.039	12.6	3.23	0.064	3	5	313	12.0	8.1	11.9
11/23/2009	8:30	0.01	12.3	2.91	0.034	13.9	3.07	0.050	3	3	316	10.6	8.1	11.9
12/1/2009	9:00	0.01	12.6	2.78	0.025	12.8	2.89	0.034	2	2	313	11.9	8.3	9.4
12/8/2009	8:15	0.01	14.2	2.94	0.013	14.5	3.07	0.022	1	2	323	12.9	8.4	6.9
12/15/2009	8:45	0.01	14.6	2.93	0.008	14.8	3.04	0.016	2	2	326	12.5	8.6	6.3
12/21/2009	8:15	0.01	16.3	2.97	0.007	16.4	3.13	0.016	1	2	333	11.8	8.7	5.8
12/29/2009	16:15	0.01	12.5	2.41	0.014	15.1	2.55	0.028	2	4	303	13.3	8.3	4.0
1/5/2010	15:45	0.01	13.7	2.49	0.015	15.1	2.61	0.026	1	3	312	15.3	8.4	2.7
1/12/2010	8:45	0.01	16.2	2.94	0.012	16.7	3.05	0.016	1	2	332	14.8	8.5	2.0
1/19/2010	8:45	0.01	17.5	2.72	0.014	16.4	2.99	0.056	1	2	336	11.1	8.5	8.3
1/26/2010	8:45	0.02	12.3	2.15	0.047	16.2	2.42	0.066	5	10	279	14.3	8.0	6.0
2/3/2010	8:15	0.03	15.6	2.42	0.034	17.2	2.53	0.064	6	7	302	12.6	8.1	5.6
2/10/2010	8:45	0.03	11.7	2.80	0.044	13.9	2.98	0.064	5	8	278	12.2	8.1	4.6
2/16/2010	8:30	0.01	11.9	2.92	0.030	14.7	2.99	0.042	2	7	292	11.3	8.2	4.2
2/23/2010	8:15	0.04	13.8	2.40	0.037	16.3	2.56	0.070	7	12	291	11.8	8.1	6.2
3/2/2010	8:30	0.01	12.5	2.94	0.013	14.1	3.10	0.026	4	4	301	11.3	8.2	7.1
3/8/2010	8:30	0.02	13.3	2.91	0.011	15.1	3.05	0.024	4	5	311	9.9	8.3	11.5
3/16/2010	8:30	0.04	14.1	2.98	0.037	14.9	3.26	0.058	5	4	320	9.9	8.1	11.3
3/30/2010	8:30	0.02	8.2	3.11	0.042	12.0	3.29	0.060	12	12	260	10.5	7.9	11.4
4/7/2010	17:30	0.02	9.7	2.74	0.043	11.7	2.94	0.094	14	12	275	9.0	8.2	17.7
4/13/2010	8:15	0.01	10.8	2.56	0.008	11.9	2.74	0.032	10	9	287	9.4	8.3	16.6
4/20/2010	8:30	0.02	12.1	2.87	0.021	12.5	3.08	0.044	7	7	310	8.8	8.1	15.2
4/25/2010	9:00	0.10	15.1	3.02	0.036	15.2	3.11	0.094	22	17	327	8.8	8.0	16.4
4/27/2010	8:15	0.05	11.8	2.44	0.042	13.1	2.53	0.074	10	10	298	9.4	8.0	14.1
5/4/2010	8:15	0.06	13.3	2.38	0.025	13.6	2.61	0.064	13	11	315	8.5	8.4	18.2
5/11/2010	8:45	0.07	14.5	2.78	0.043	14.4	3.03	0.080	15	13	332	8.9	8.0	16.9
5/14/2010	18:15	0.09	10.1	1.99	0.080	11.6	2.23	0.200	45	42	267	8.4	7.9	19.0
5/18/2010	8:15	0.01	7.4	1.86	0.066	10.7	2.09	0.134	30	28	244	8.4	7.8	17.6
5/25/2010	12:30	0.01	9.0	2.54	0.058	11.1	2.68	0.104	21	19	280	8.4	7.9	22.6
6/1/2010	8:15	0.01	10.4	2.73	0.057	11.9	3.50	0.108	18	16	299	7.4	7.9	22.5
6/8/2010	8:30	0.06	12.1	2.59	0.049	12.1	2.71	0.086	17	14	307	7.6	7.9	23.0
6/15/2010	8:15	0.03	12.6	2.35	0.055	13.2	2.47	0.094	17	15	317	7.3	8.0	24.1
6/23/2010	8:30	0.01	14.3	2.15	0.057	13.2	2.23	0.094	2	10	325	6.6	8.1	28.6

**Stream Name** Niokaska Creek  
**Site ID** Mud Creek Tributary (or "NC" in other AWRC publications)  
**Site Location** Niokaska Creek at Township Street  
**GPS Coordinates** 36°05'43"N, 94°08'05"W  
**USGS Station ID** 07194809  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	14:00	0.07	11.5	0.18	0.017	18.0	0.41	0.032	2	3	420	7.7	7.8	24.5
7/14/2009	10:20	0.03	13.4	0.15	0.014	20.3	0.20	0.030	5	7	447	6.2	7.7	25.1
7/21/2009	7:15	0.12	4.3	0.50	0.061	7.1	0.97	0.320	156	157	182	8.2	7.9	21.5
7/22/2009	10:15	0.02	8.3	0.26	0.019	19.2	0.35	0.046	6	6	352	6.6	7.7	21.2
7/28/2009	10:30	0.02	12.8	0.13	0.009	21.1	0.24	0.036	2	4	439	8.0	7.7	22.9
7/30/2009	14:50	0.13	2.2	0.40	0.052	3.4	0.67	0.212	71	76	105	8.3	7.8	23.1
8/4/2009	10:30	0.02	10.4	0.17	0.006	18.7	0.25	0.032	4	4	403	5.4	7.7	24.2
8/10/2009	18:30	0.40	1.1	0.28	0.069	2.2	1.92	0.713	647	352	111	6.2	7.3	25.3
8/11/2009	10:30	<0.01	5.0	0.31	0.023	11.3	0.55	0.060	5	11	275	6.3	7.8	22.7
8/18/2009	10:30	0.05	11.5	0.11	0.014	20.6	0.23	0.048	3	4	424	9.1	7.9	23.1
8/20/2009	8:10	0.07	3.9	0.31	0.042	7.1	0.57	0.114	18	24	180	7.2	8.0	22.3
8/20/2009	10:30	0.12	1.2	0.39	0.091	2.6	0.85	0.454	200	197	73	9.3	8.0	21.1
8/25/2009	11:30	<0.01	10.3	0.11	0.016	19.4	0.25	0.048	3	3	404	7.0	7.9	21.9
9/1/2009	11:00	0.02	12.8	0.08	0.011	23.7	0.23	0.028	3	4	426	6.1	7.8	18.0
9/8/2009	10:30	0.06	9.2	0.13	0.015	17.0	0.32	0.046	3	3	380	6.1	7.7	21.3
9/15/2009	10:30	0.02	10.2	0.19	0.018	18.3	0.32	0.030	2	3	416	7.1	7.8	20.5
9/22/2009	10:15	0.05	8.6	1.30	0.033	16.4	1.53	0.074	7	10	345	7.9	7.8	20.1
9/29/2009	10:30	0.01	10.7	0.25	0.019	20.8	0.40	0.030	1	2	422	10.8	7.9	14.8
10/6/2009	10:15	0.12	3.0	0.42	0.091	5.8	0.94	0.326	90	146	135	9.0	7.9	17.5
10/13/2009	11:00	0.10	4.6	0.49	0.036	9.8	0.76	0.106	29	35	203	9.4	8.0	15.3
10/20/2009	11:00	0.05	9.7	0.43	0.017	18.6	0.64	0.170	1	3	398	8.9	8.0	14.7
10/27/2009	10:15	0.01	6.5	0.31	0.047	12.7	0.52	0.066	5	8	263	11.2	8.0	13.0
11/3/2009	10:30	0.02	9.1	0.59	0.017	17.1	0.77	0.018	0	2	380	9.0	7.8	12.8
11/10/2009	10:00	0.01	10.1	0.14	0.015	17.9	0.23	0.024	1	2	403	9.9	7.9	14.8
11/17/2009	10:30	0.00	10.0	0.20	0.014	18.6	0.36	0.032	2	2	365	11.8	8.0	9.7
11/23/2009	10:30	0.00	11.0	0.19	0.008	19.5	0.33	0.030	1	2	398	9.7	7.9	11.5
12/1/2009	11:00	0.00	11.3	0.15	0.012	20.1	0.20	0.016	2	2	386	12.9	8.0	7.2
12/8/2009	10:25	0.03	15.0	0.26	0.028	28.1	0.30	0.050	8	11	280	12.9	8.0	6.1
12/15/2009	11:05	0.00	12.4	0.05	0.004	21.9	0.15	0.008	1	2	391	13.7	8.1	3.7
12/21/2009	10:10	0.00	12.3	0.05	0.002	22.7	0.18	0.004	1	5	394	12.6	8.0	3.3
12/29/2009	18:15		21.6	0.44	0.004	21.4	0.53	0.014	0	2	397	13.1	8.1	4.1
1/5/2010	18:15	0.01	24.1	0.38	0.008	22.8	0.52	0.008	0	4	420	13.0	8.2	0.8
1/12/2010	10:45	0.00	18.3	0.35	0.006	22.5	0.42	0.010	1	2	400	15.4	8.1	1.2
1/19/2010	10:40	0.00	18.9	0.13	0.004	22.7	0.27	0.016	1	1	388	11.9	8.1	7.4
1/26/2010	10:38	0.00	17.0	0.91	0.008	20.1	1.04	0.000	1	4	370	13.2	8.1	3.5
2/3/2010	10:30	0.02	39.8	0.77	0.000	20.6	0.89	0.012	0	2	421	14.0	8.2	3.4
2/10/2010	10:45	0.00	35.4	0.85	0.005	19.9	0.97	0.010	1	4	417	14.6	8.2	1.9
2/16/2010	10:25	0.01	21.9	0.67	0.005	20.7	0.82	0.010	1	3	385	13.4	8.3	1.2
2/23/2010	10:28	0.00	22.5	0.69	0.004	21.2	0.85	0.006	1	2	381	14.4	8.3	2.8
3/2/2010	10:30	0.00	19.4	0.44	0.004	22.3	0.66	0.008	1	1	395	13.0	8.3	4.0
3/8/2010	10:40	0.00	18.8	0.18	0.004	23.2	0.30	0.000	1	3	388	11.3	8.3	10.3
3/16/2010	10:25	0.02	18.5	0.09	0.005	23.7	0.27	0.012	2	2	392	10.4	8.1	9.2
3/22/2010	11:04	0.02	19.9	0.64	0.011	15.9	0.91	0.138	95	77	198	10.2	8.3	10.4
3/30/2010	10:25	0.00	16.0	0.72	0.007	19.3	0.89	0.002	1	3	375	12.1	8.2	10.0
4/7/2010	11:05	0.00	15.2	0.52	0.008	18.3	0.68	0.050	2	2	382	9.7	8.1	16.0
4/13/2010	10:15	0.01	15.3	0.27	0.008	20.0	0.44	0.014	2	2	402	9.7	8.1	15.2
4/20/2010	10:00	0.02	15.5	0.17	0.008	21.1	0.32	0.012	1	2	406	9.9	8.1	12.8
4/27/2010	10:25	0.06	15.1	0.41	0.013	19.2	0.55	0.016	1	2	394	9.7	8.1	11.9
5/4/2010	10:15	0.07	15.3	0.28	0.014	19.7	0.45	0.034	1	2	343	7.1	7.9	15.6
5/11/2010	10:40	0.06	13.4	0.35	0.020	17.8	0.54	0.036	2	4	321	8.2	7.9	16.8
5/14/2010	10:00	0.57	2.0	0.38	0.099	2.5	1.60	1.579	994	567	68	9.1	7.9	16.0
5/18/2010	10:30	0.00	12.1	0.84	0.020	16.9	1.01	0.034	3	3	373	9.0	7.9	16.2
5/25/2010	14:30	0.02	12.8	0.50	0.025	17.6	0.65	0.044	4	5				
6/1/2010	10:05	0.06	13.6	0.43	0.023	17.7	0.52	0.040	4	4	405	8.14	8.02	21.9
6/8/2010	10:30	0.02	11.0	0.35	0.026	14.7	0.50	0.042	4	4	413	7.45	7.94	20.8
6/15/2010	10:25	0.02	13.0	0.27	0.025	16.1	0.44	0.042	4	4	359	6.77	7.86	22.4
6/23/2010	10:30	0.07	15.0	0.22	0.021	22.4	0.34	0.038	5	5	407	6.53	7.81	22.3

**Stream Name** Osage Creek  
**Site ID** ("Osage" in other AWRC publications)  
**Site Location** Osage Creek near Elm Springs  
**GPS Coordinates** 36°13'20"N, 94°17'14"W  
**USGS Station ID** 07195000  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	12:20	0.03	19.7	4.07	0.092	17.6	4.20	0.106	3	3	403	9.6	8.3	23.0
7/14/2009	9:40	<0.01	24.1	3.96	0.094	26.3	4.03	0.110	4	4	427	7.9	8.0	23.6
7/21/2009	11:30	0.03	24.1	3.70	0.101	26.7	3.80	0.146	18	10	398	8.0	7.9	21.0
7/28/2009	9:45	0.01	24.3	3.71	0.104	26.9	3.91	0.142	4	4	418	9.0	8.0	21.6
8/4/2009	9:30	0.04	25.3	3.81	0.087	27.1	3.82	0.130	5	5	435	6.7	7.9	23.5
8/11/2009	10:00	0.06	19.4	2.79	0.113	23.6	3.22	0.196	24	27	341	6.5	7.8	22.1
8/18/2009	9:45	0.01	27.9	3.88	0.106	32.9	3.93	0.136	5	6	450	10.6	8.1	22.3
8/25/2009	10:45	0.01	28.4	3.61	0.101	32.3	3.91	0.120	3	3	446	8.1	8.1	21.6
9/1/2009	10:15	0.02	31.9	3.88	0.104	34.2	4.16	0.120	2	2	462	8.6	8.2	18.6
9/8/2009	10:00	0.05	26.3	3.53	0.086	26.8	3.78	0.124	3	3	437	7.7	7.9	21.4
9/10/2009	7:30	0.06	15.8	2.17	0.167	15.6	2.57	0.374	84	95	283	7.9	8.0	21.2
9/15/2009	10:00	0.01	27.1	3.78	0.104	30.9	3.94	0.130	3	4	437	9.0	8.0	20.2
9/22/2009	9:30	0.01	10.4	1.53	0.129	12.8	1.88	0.250	50	52	441	11.2	8.0	15.7
9/29/2009	10:00	0.00	26.5	3.81	0.112	31.9	4.00	0.142	2	2	441	11.2	8.0	15.7
10/6/2009	9:45	0.06	31.5	4.33	0.108	33.5	4.50	0.137	3	3	467	8.7	7.9	17.2
10/13/2009	10:15	0.06	13.9	3.74	0.139	19.9	3.93	0.230	57	36	327	8.8	7.8	16.0
10/20/2009	10:30	0.01	17.0	4.37	0.072	21.1	4.71	0.092	6	6	375	9.2	8.0	15.4
10/27/2009	9:30	0.04	17.1	3.48	0.063	18.6	3.69	0.088	5	4	353	10.5	7.9	14.1
11/3/2009	10:00	0.01	13.9	4.17	0.057	15.0	4.22	0.084	8	12	339	8.8	7.9	13.8
11/10/2009	9:30	0.04	17.1	4.45	0.053	19.3	4.50	0.070	2	3	376	11.0	8.1	15.1
11/17/2009	9:45	0.01	21.7	4.39	0.048	19.6	4.67	0.076	1	2	393	11.9	8.1	11.5
11/23/2009	9:45	0.00	20.0	4.29	0.047	22.2	4.46	0.062	1	2	404	10.5	8.1	12.9
12/1/2009	10:30	0.00	21.6	4.74	0.053	17.1	4.75	0.066	2	3	392	13.1	8.3	9.4
12/8/2009	9:45	0.00	25.2	4.75	0.051	25.6	5.12	0.068	2	2	425	11.7	8.1	9.1
12/15/2009	10:15	0.01	25.3	4.55	0.049	27.2	4.90	0.086	13	14	429	12.7	8.3	6.8
12/21/2009	9:30	0.00	25.2	4.52	0.042	25.8	4.81	0.056	1	2	428	11.5	8.2	6.4
12/29/2009	17:45		23.2	4.59	0.043	19.2	4.63	0.066	2	2	392	12.9	8.5	7.1
1/5/2010	17:15	0.00	25.5	4.35	0.044	21.1	4.59	0.056	1	3	405	15.1	8.6	5.2
1/12/2010	10:00	0.00	27.9	4.05	0.041	26.8	4.05	0.048	1	2	432	13.3	8.3	4.7
1/19/2010	10:00	0.01	32.3	3.62	0.041	28.4	3.90	0.058	2	2	447	10.6	8.2	10.8
1/26/2010	10:00	0.01	20.7	3.65	0.044	18.7	3.80	0.048	3	6	373	11.2	8.1	6.6
2/3/2010	9:45	0.05	31.7	3.44	0.027	18.8	3.65	0.054	4	5	405	11.7	8.1	7.3
2/10/2010	10:00	0.03	20.7	4.10	0.033	16.6	4.28	0.050	2	3	363	11.5	8.1	6.4
2/16/2010	9:45	0.01	20.0	4.29	0.030	17.2	4.68	0.044	2	5	373	10.6	8.2	6.0
2/23/2010	9:45	0.00	21.9	3.68	0.031	16.9	3.79	0.048	2	4	368	11.7	8.2	7.0
3/2/2010	9:45	0.00	21.2	4.43	0.029	19.4	4.87	0.050	2	2	388	10.6	8.1	7.8
3/8/2010	10:00	0.00	22.1	4.28	0.028	21.4	4.52	0.044	2	3	396	10.8	8.3	12.0
3/16/2010	10:00	0.02	23.8	4.19	0.031	21.9	4.57	0.052	4	3	403	9.7	8.1	11.2
3/22/2010	13:33	0.03	17.9	2.14	0.035	15.2	2.46	0.086	10	13	223	12.9	8.5	12.8
3/30/2010	9:45	0.00	13.3	4.20	0.046	16.2	4.42	0.052	5	5	333	10.1	8.0	11.5
4/7/2010	18:45	0.04	18.3	4.10	0.052	15.7	4.38	0.060	6	4	348	9.4	8.4	18.5
4/13/2010	9:45	0.03	19.0	4.20	0.047	19.2	4.52	0.722	3	3	375	9.9	8.1	15.2
4/20/2010	9:45	0.00	22.3	4.31	0.057	23.4	4.62	0.070	2	3	407	9.7	8.1	13.8
4/24/2010	19:30	0.07	12.1	1.91	0.063	11.6	2.12	0.158	35	33	241	8.3	7.9	17.2
4/27/2010	9:45	0.05	17.8	3.74	0.057	16.5	3.80	0.076	3	4	367	9.1	8.1	12.9
5/4/2010	9:45	0.04	22.4	3.89	0.057	24.1	4.15	0.078	4	4	410	8.7	8.0	16.0
5/11/2010	10:00	0.07	19.6	3.43	0.063	21.1	3.69	0.100	7	6	368	8.3	7.9	16.6
5/14/2010	14:15	0.21	5.8	0.98	0.139	6.4	1.89	1.225	659	516	154	7.8	8.0	17.8
5/18/2010	9:45	0.03	12.7	3.32	0.075	15.0	3.53	0.110	11	9	322	8.5	7.9	16.2
5/25/2010	13:45	0.03	13.9	3.81	0.062	15.4	3.89	0.088	9	7	341	9.2	8.0	22.1
6/1/2010	9:30	0.01	16.6	4.01	0.059	17.1	4.01	0.076	5	4	367	8.0	7.9	19.5
6/8/2010	9:45	0.05	20.2	4.01	0.070	24.1	4.04	0.090	6	5	397	8.2	8.0	20.6
6/15/2010	9:45	0.00	20.7	3.81	0.085	21.0	4.04	0.108	7	5	393	7.7	7.9	20.9
6/23/2010	9:45	0.00	23.4	3.50	0.074	27.4	3.72	0.126	6	4	424	7.6	7.9	23.8



**Stream Name** Illinois River  
**Site ID** ("Savoy" in other AWRC publications)  
**Site Location** Illinois River at Savoy  
**GPS Coordinates** 36°06'10"N, 94°20'39"W  
**USGS Station ID** 07194800  
**AWRC Publication No** MSC363  
**Funding Agency** Arkansas Natural Resources Commission through the Illinois River Watershed Partnership  
**Dates** 7/1/09-6/30/10

Sample Date	Sample Time	Ammonia-N mg/L	Chloride mg/L	Nitrate-N mg/L	Soluble Reactive P mg/L	Sulfate mg/L	Total N mg/L	Total P mg/L	Total Suspended Solids mg/L	Turbidity NTU	Conductivity µS/cm	Dissolved Oxygen mg/L	pH	Temperature °C
7/7/2009	6:25	0.06	14.9	2.30	0.094	18.2	2.65	0.122	10	9	375	6.2	7.8	23.4
7/14/2009	6:00	0.04	17.4	2.43	0.072	23.5	2.91	0.104	14	12	377	5.7	7.8	27.6
7/21/2009	0:15	0.07	17.9	2.80	0.063	27.1	2.94	0.112	11	9	362	7.2	7.8	23.9
7/28/2009	6:00	0.06	16.3	2.59	0.075	23.1	3.14	0.122	15	15	354	6.8	7.7	24.3
8/4/2009	6:00	0.04	15.3	2.15	0.064	23.6	2.47	0.136	42	27	364	7.7	7.7	26.2
8/11/2009	6:30	0.10	12.9	2.27	0.083	18.1	2.71	0.140	19	19	323	5.2	7.6	25.7
8/18/2009	6:30	0.02	15.6	2.05	0.061	18.5	2.55	0.104	9	9	361	7.6	8.0	25.2
8/20/2009	18:30	0.04	18.0	2.17	0.070	18.2	2.48	0.132	27	25	350	6.2	8.0	24.7
8/25/2009	7:15	<0.01	17.3	1.89	0.065	19.1	2.36	0.134	9	10	355	6.1	7.9	22.8
9/1/2009	6:45	0.03	18.0	2.46	0.071	18.5	2.71	0.102	9	9	354	6.5	7.9	20.3
9/5/2009	17:00	0.12	11.6	2.03	0.274	14.1	3.02	0.290	79	95	249	6.3	7.7	23.4
9/8/2009	6:15	0.07	14.0	2.45	0.112	19.2	2.85	0.140	15	19	307	5.9	7.8	22.9
9/10/2009	12:15	<0.01	15.8	3.09	0.144	21.5	3.58	0.262	48	37	343	7.0	7.8	22.4
9/15/2009	6:15	0.03	12.3	2.25	0.080	16.3	2.49	0.114	9	10	313	7.5	7.7	21.4
9/22/2009	5:45	0.28	3.1	0.79	0.345	6.5	2.08	1.018	351	347	114	6.8	7.2	19.8
9/29/2009	6:15	0.03	9.9	2.57	0.066	16.2	2.89	0.100	4	7	311	8.4	7.8	16.6
10/6/2009	6:00	0.00	13.3	3.14	0.050	17.3	3.42	0.068	4	4	350	8.7	7.8	16.5
10/9/2009	17:15	0.11	2.6	1.01	0.384	6.2	1.54	0.622	99	117	112	7.7	7.3	15.3
10/13/2009	7:00	0.15	5.3	1.76	0.138	10.5	2.40	0.238	27	28	190	8.4	7.6	16.0
10/20/2009	7:00	0.04	8.7	2.94	0.054	13.8	3.34	0.094	5	7	287	8.5	7.7	14.5
10/27/2009	6:15	0.04	8.2	2.08	0.059	14.4	2.47	0.082	7	6	276	9.3	7.9	13.2
11/3/2009	6:30	0.02	6.8	2.36	0.049	13.2	2.52	0.072	7	11	252	8.9	7.7	13.5
11/10/2009	6:15	0.04	9.0	2.53	0.036	13.9	2.82	0.054	3	5	298	8.7	7.8	14.9
11/17/2009	6:15	0.02	9.3	1.89	0.043	17.6	2.35	0.084	4	6	294	10.2	7.9	11.3
11/23/2009	6:15	0.04	9.1	2.00	0.025	15.9	2.25	0.050	3	5	282	9.2	7.9	11.4
12/1/2009	6:45	0.00	10.8	2.23	0.016	16.6	2.36	0.030	3	2	299	10.8	8.0	7.9
12/8/2009	6:30	0.00	11.8	2.64	0.007	17.3	2.81	0.022	2	2	310	11.7	8.0	6.5
12/15/2009	6:45	0.00	12.1	2.58	0.006	19.0	2.85	0.022	1	3	321	10.8	8.1	5.6
12/21/2009	6:15	0.00	12.0	2.40	0.003	18.4	2.68	0.018	1	3	320	12.6	8.2	4.4
12/29/2009	14:15		11.0	1.64	0.014	18.9	1.97	0.036	2	6	263	13.7	8.3	3.6
1/5/2010	22:15	0.02	10.3	1.64	0.018	19.6	1.90	0.034	1	3	270	15.4	8.5	1.9
1/12/2010	6:30	0.05	13.5	2.72	0.025	20.3	2.95	0.040	1	3	332	13.5	8.1	1.0
1/19/2010	6:30	0.05	12.5	2.15	0.034	20.9	2.51	0.070	3	3	313	10.1	7.9	7.5
1/26/2010	6:45	0.05	8.0	1.56	0.032	17.5	1.82	0.056	5	10	230	11.9	7.9	4.4
2/3/2010	6:15	0.18	9.9	1.18	0.156	20.3	1.83	0.254	22	26	238	12.2	8.0	4.6
2/10/2010	6:45	0.06	9.1	2.16	0.038	16.9	2.41	0.068	4	10	248	11.9	8.1	3.9
2/16/2010	6:30	0.04	9.4	2.29	0.020	17.4	2.60	0.038	3	6	261	10.5	7.9	3.6
2/23/2010	6:15	0.05	9.1	1.67	0.035	17.7	2.10	0.080	7	14	235	10.3	7.9	5.1
3/2/2010	6:30	0.00	10.1	2.30	0.006	18.0	2.49	0.030	4	5	282	10.5	8.0	6.8
3/8/2010	6:30	0.00	10.7	2.42	0.005	18.2	2.79	0.032	8	7	307	9.2	7.8	10.8
3/16/2010	6:30	0.00	11.7	2.31	0.016	19.2	2.77	0.044	5	6	304	8.9	7.9	10.7
3/22/2010	10:25	0.12	8.5	1.25	0.094	17.5	1.71	0.186	14	25	169	11.3	8.0	7.4
3/30/2010	6:30	0.01	7.0	2.58	0.032	14.8	2.90	0.056	10	12	245	9.4	7.8	10.4
4/7/2010	19:15	0.01	8.1	2.22	0.029	15.4	2.48	0.066	12	14	261	9.1	8.1	18.0
4/13/2010	6:15	0.02	9.6	2.42	0.008	14.8	2.66	0.038	9	7	289	7.7	7.9	16.2
4/20/2010	6:30	0.00	11.6	2.83	0.020	15.1	3.27	0.046	6	5	312	8.0	7.9	13.9
4/27/2010	6:15	0.06	9.8	1.84	0.035	16.8	2.16	0.068	7	9	280	8.0	7.7	13.3
5/4/2010	6:15	0.05	11.4	2.40	0.026	17.6	2.61	0.062	9	8	264	7.4	7.9	16.6
5/11/2010	6:45	0.07	11.6	2.33	0.044	18.1	2.78	0.094	16	15	317	7.6	7.7	16.3
5/14/2010	6:45	0.45	6.9	0.93	0.057	17.6	1.52	0.224	68	79	237	7.1	7.8	19.2
5/14/2010	19:00	0.14	3.4	0.59	0.119	8.8	1.45	0.873	443	399	134	7.5	7.8	18.3
5/18/2010	6:15	0.01	5.7	1.17	0.048	13.5	1.54	0.114	22	24	220	7.5	7.9	17.3
5/25/2010	10:30	0.07	8.0	2.04	0.040	14.1	2.42	0.084	20	15	277	7.3	7.7	23.0
6/1/2010	6:15	0.01	9.5	3.08	0.042	14.8	5.38	0.074	9	10	315	6.7	7.7	21.2
6/8/2010	6:30	0.07	10.0	2.35	0.172	13.9	3.02	0.296	27	28	287	6.6	7.4	21.6
6/15/2010	6:15	0.07	13.6	2.55	0.053	15.3	2.87	0.094	15	13	341	6.3	7.7	23.6
6/23/2010	6:30	0.04	17.7	2.43	0.050	18.3	2.62	0.084	1	9	364	5.8	7.8	26.7